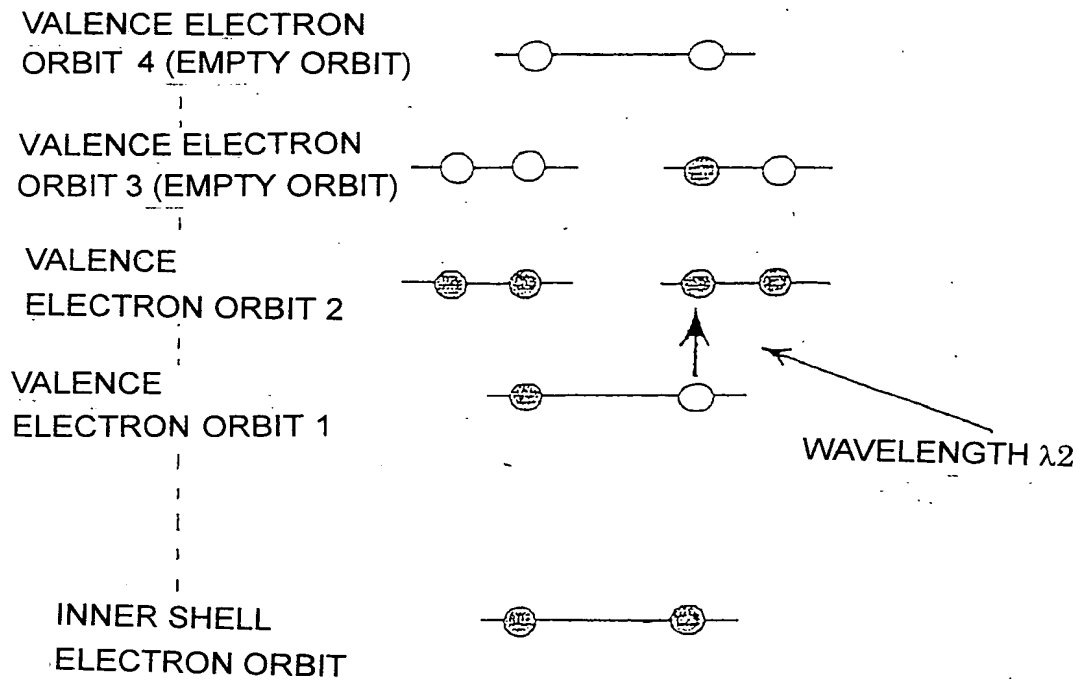
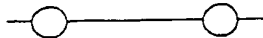


F I G . 2



F I G. 3

VALENCE ELECTRON
ORBIT 4 (EMPTY ORBIT)



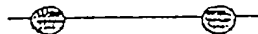
VALENCE ELECTRON
ORBIT 3 (EMPTY ORBIT)



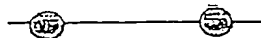
VALENCE
ELECTRON ORBIT 2



VALENCE
ELECTRON ORBIT 1

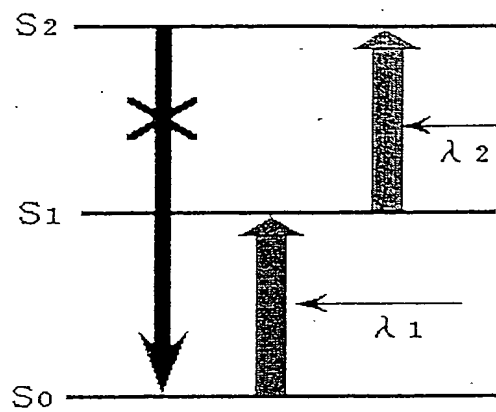


INNER SHELL
ELECTRON ORBIT



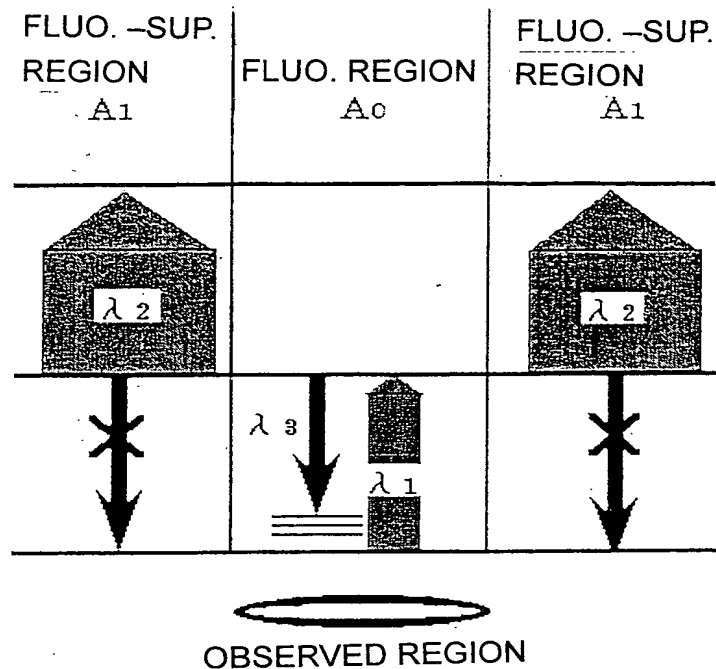
FLUORESCENCE or
PHOSPHORESCENCE

F I G . 4



F I G . 5

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F I G. 6

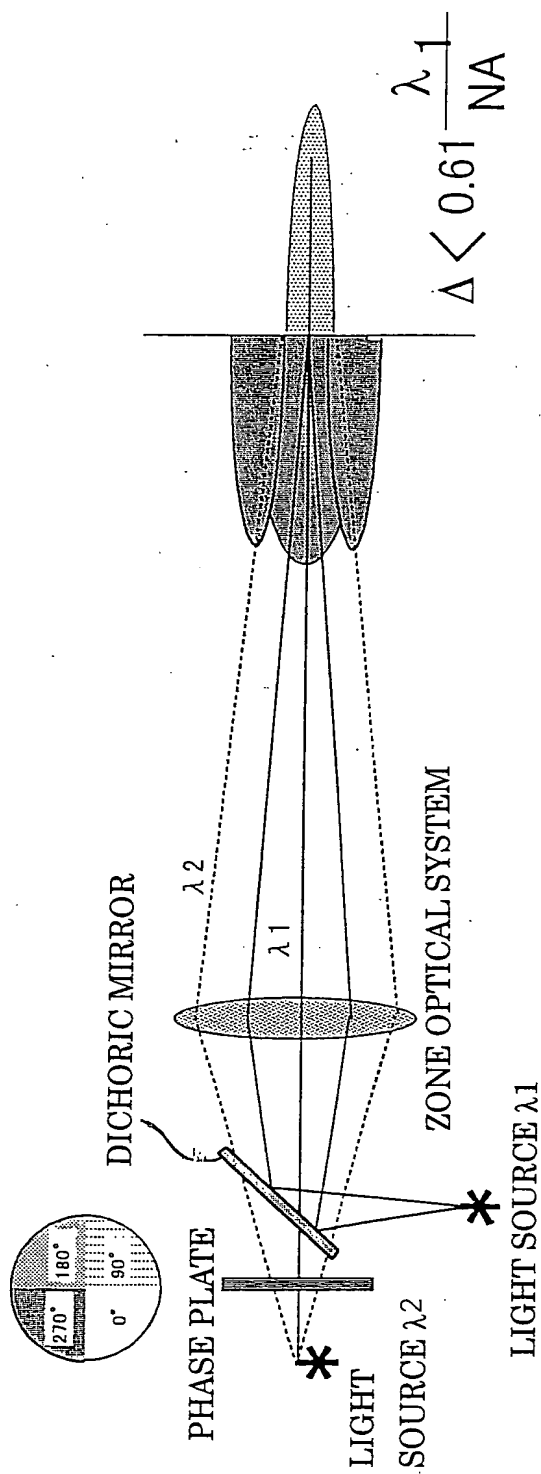


FIG. 7

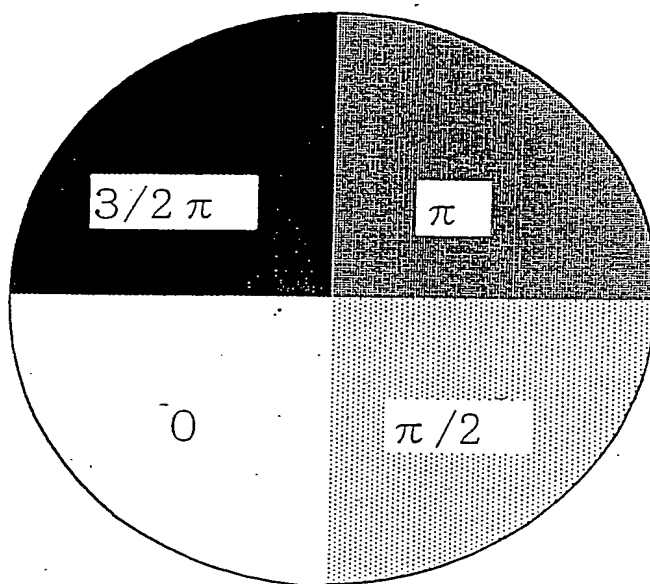


FIG. 8

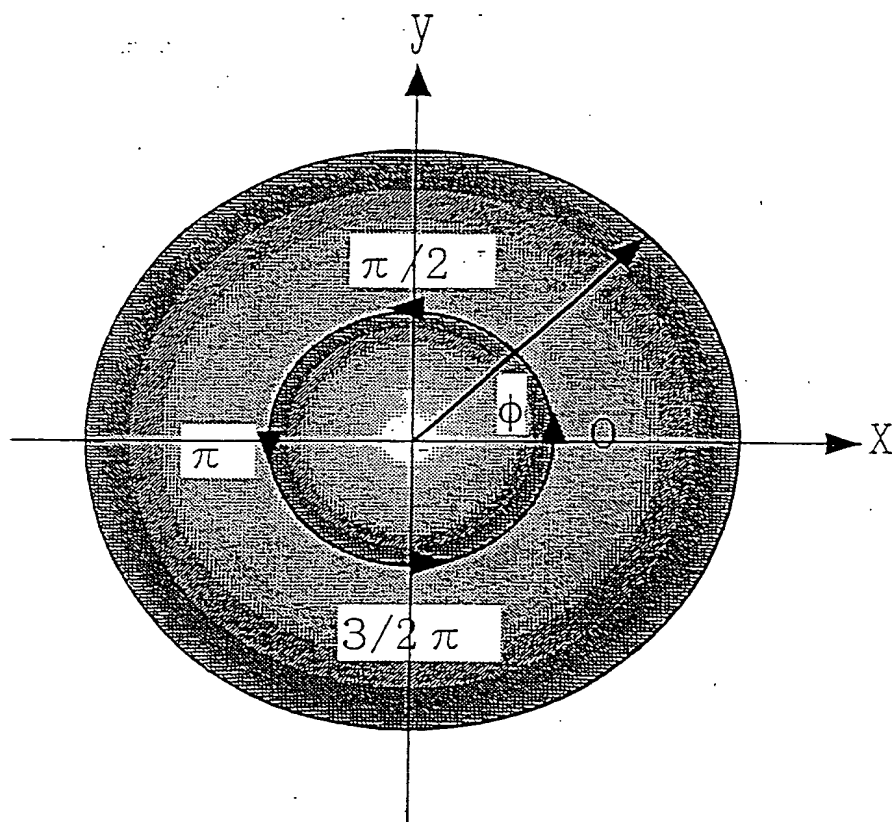


FIG. 9

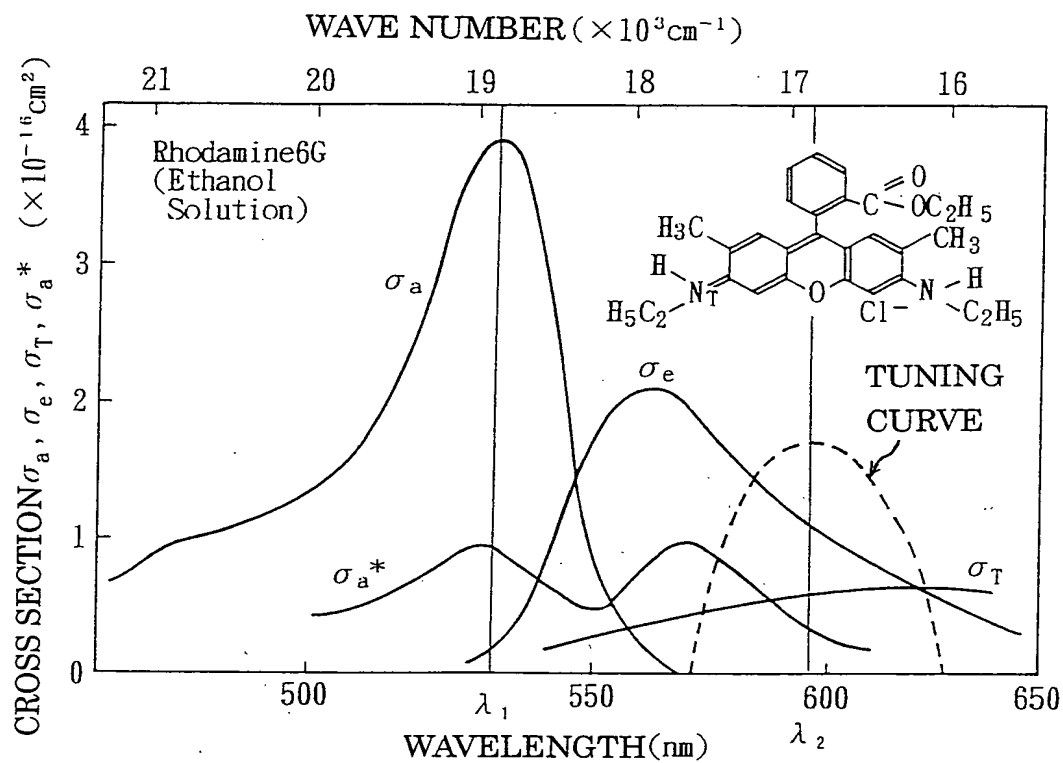


FIG. 10

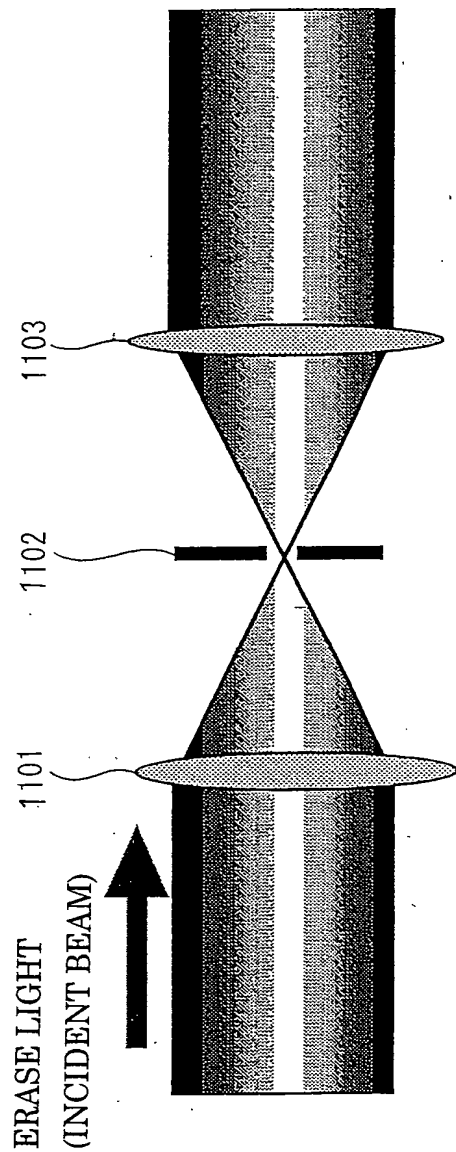


FIG. 11

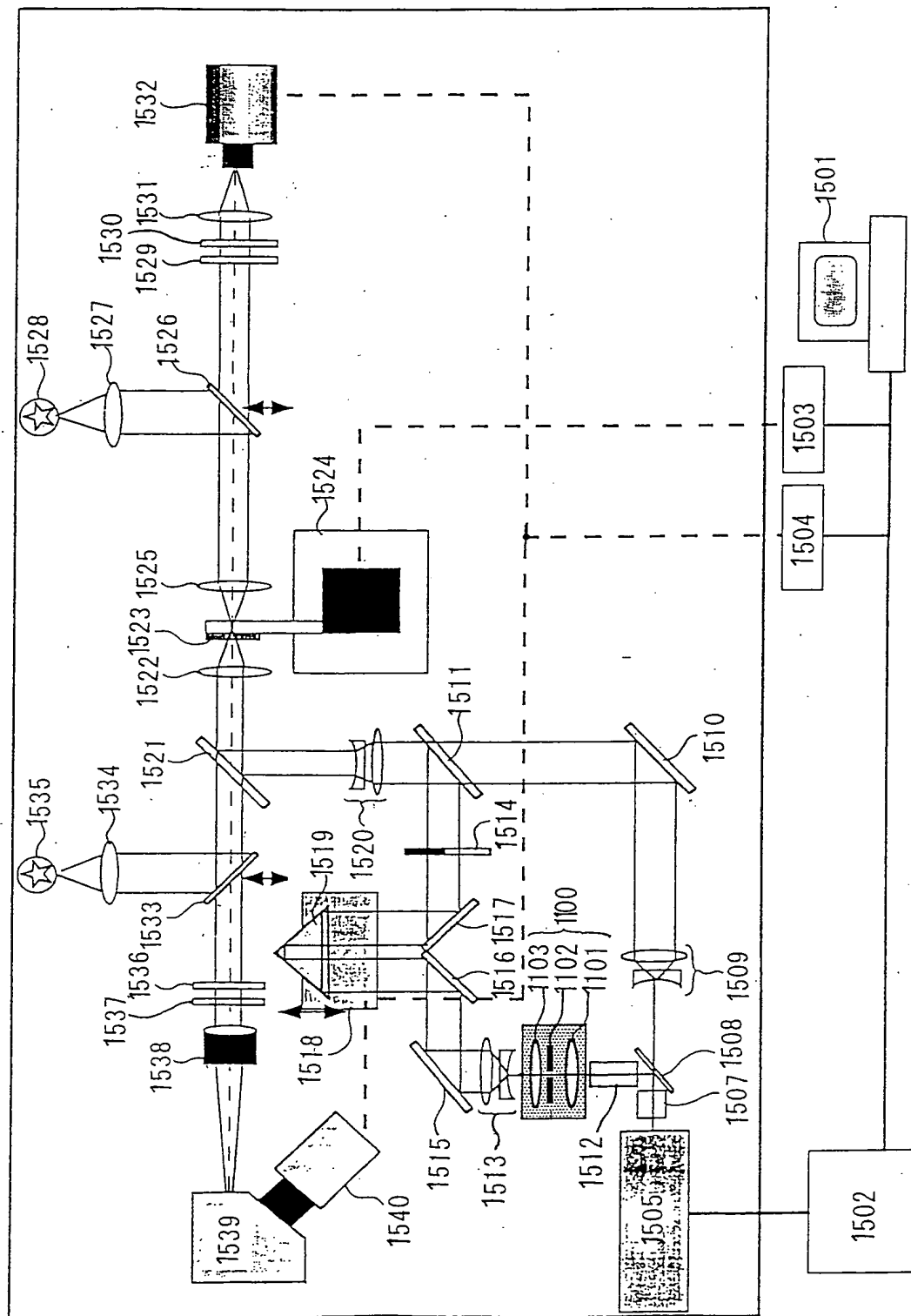
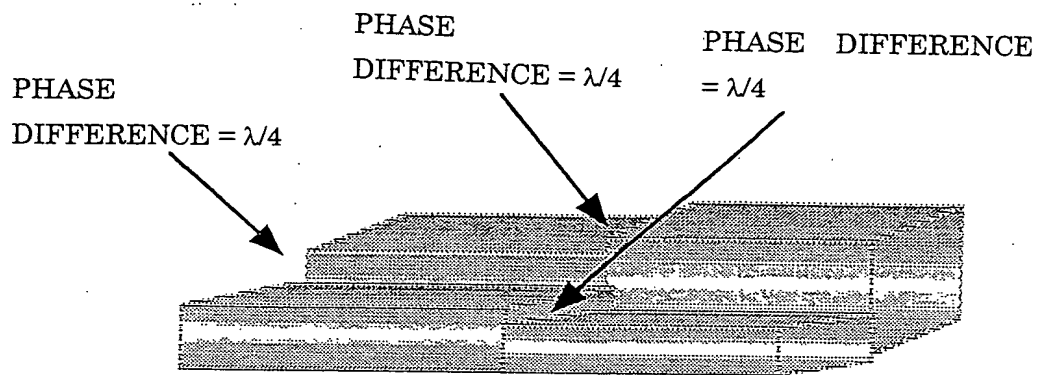


FIG. 13



F I G . 1 4

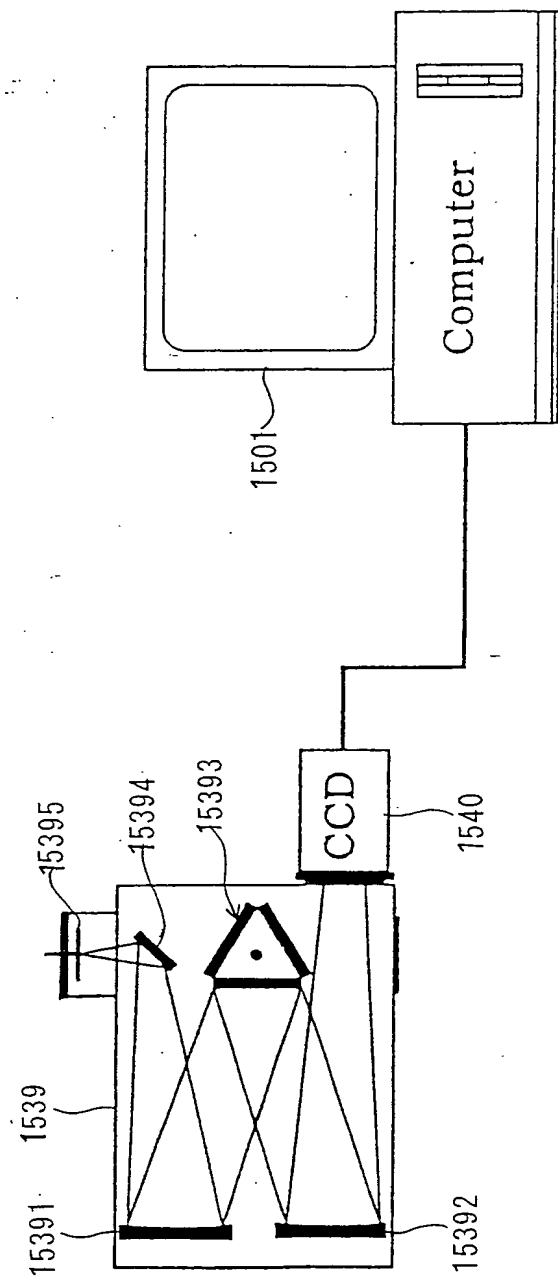


FIG. 15

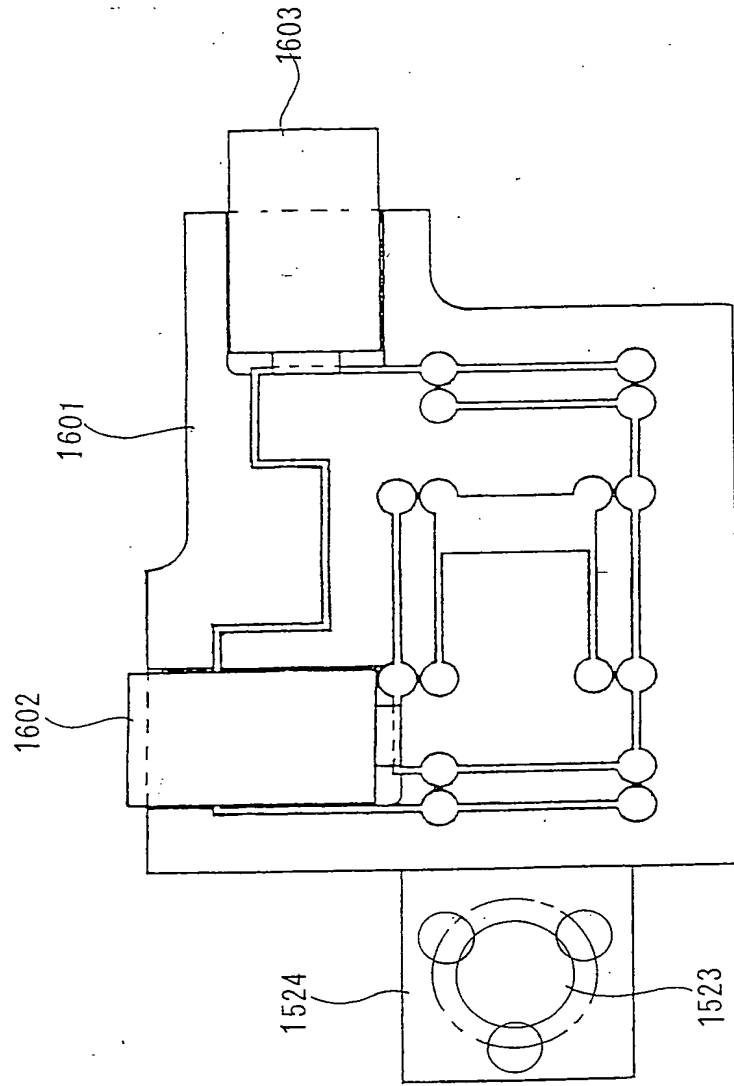


FIG. 16

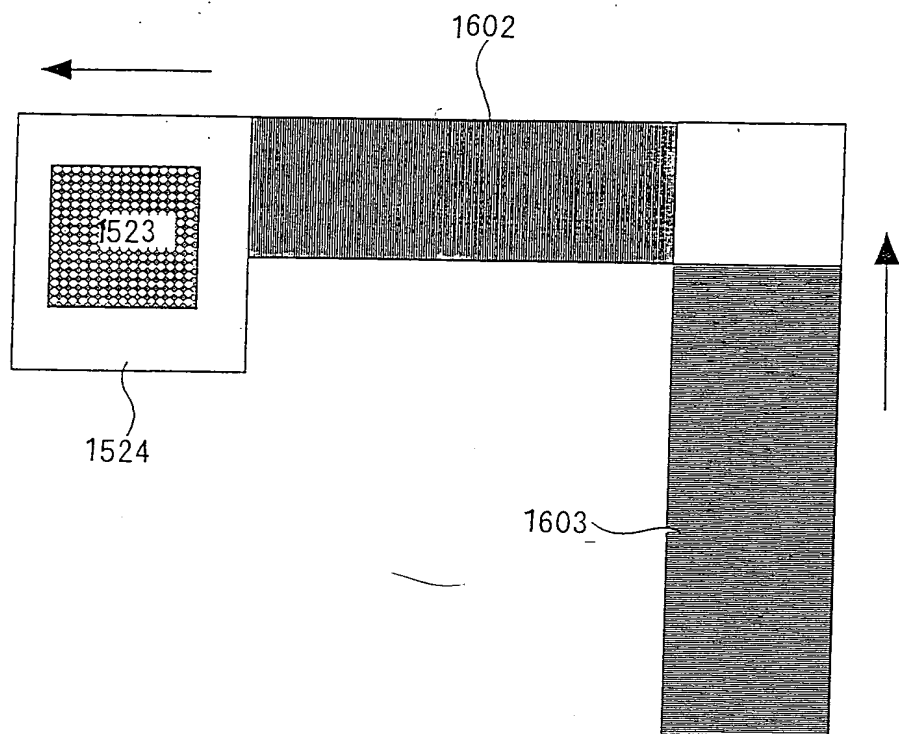


FIG. 17

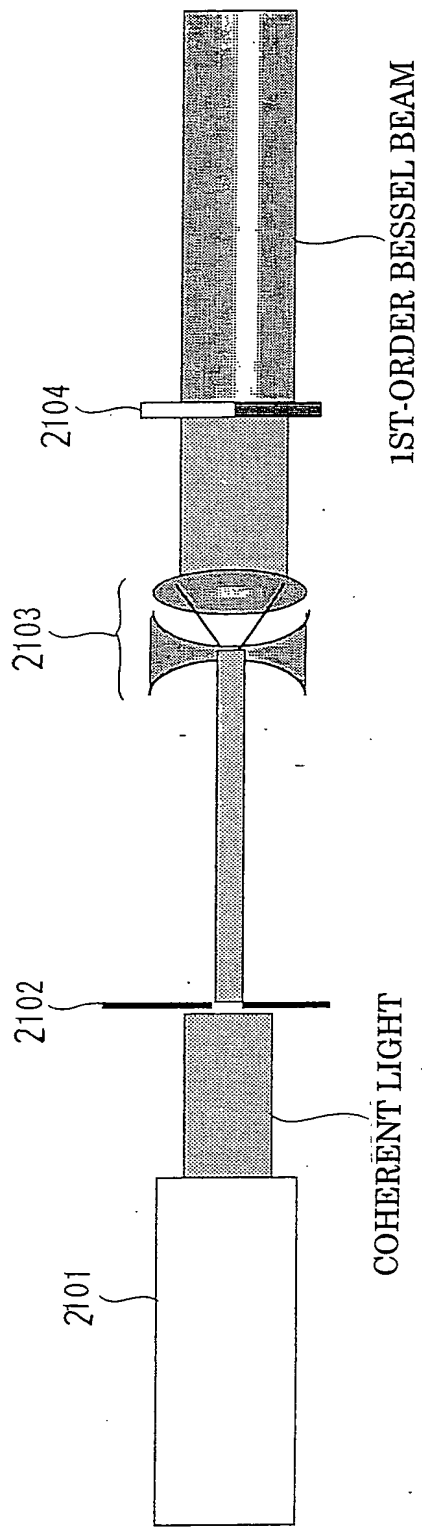


FIG. 18

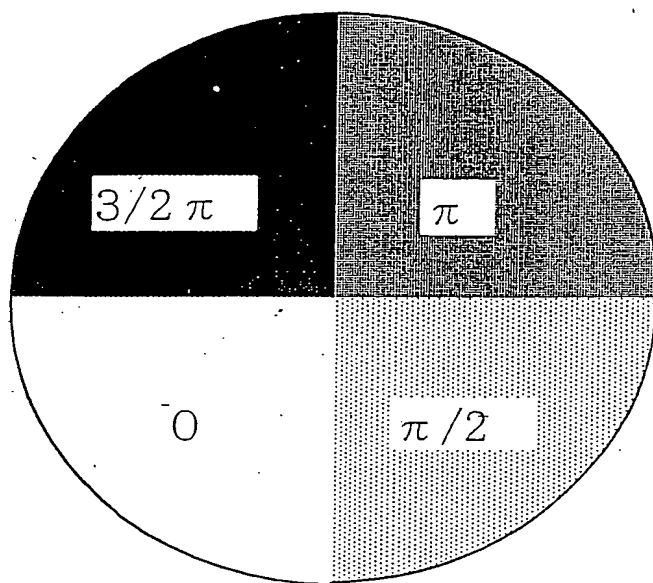


FIG. 19

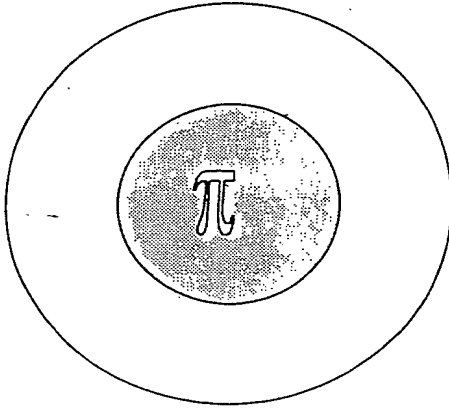


FIG. 20

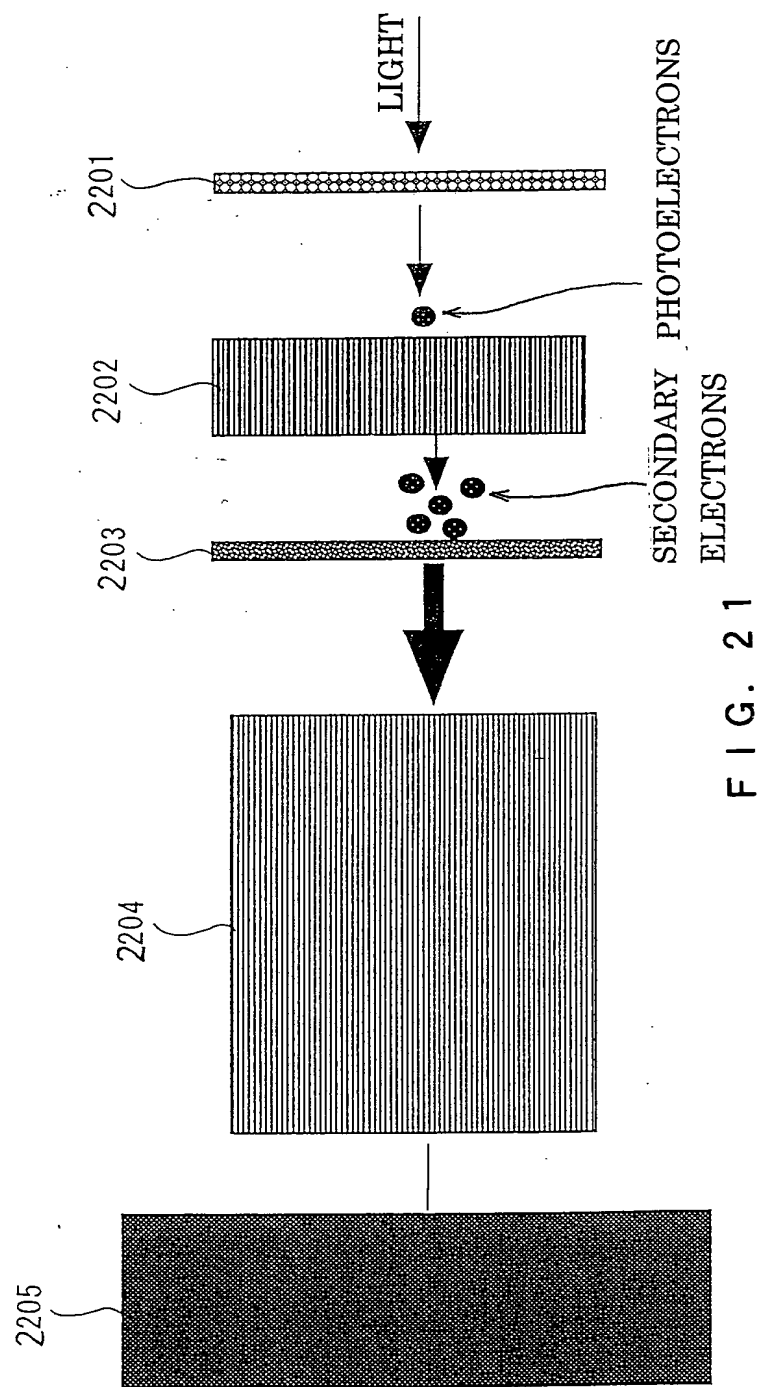


FIG. 21

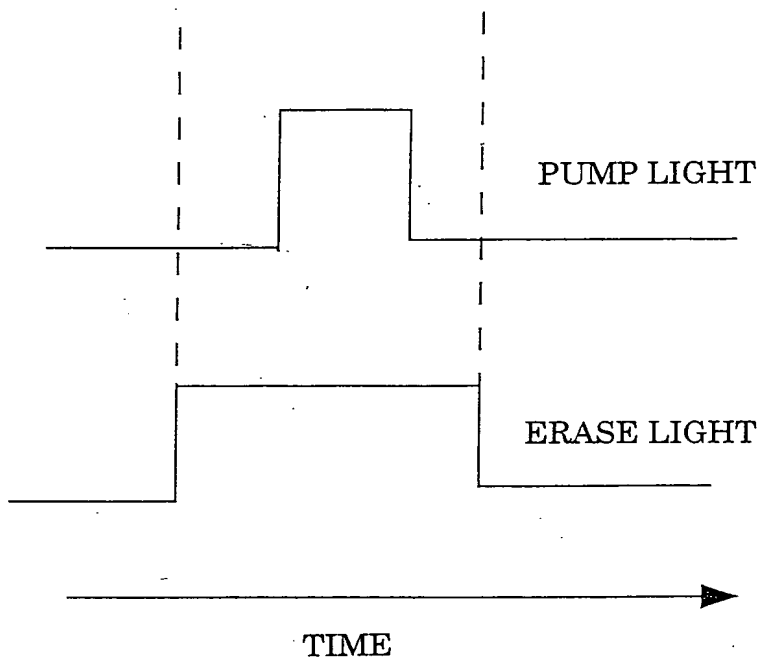


FIG. 22

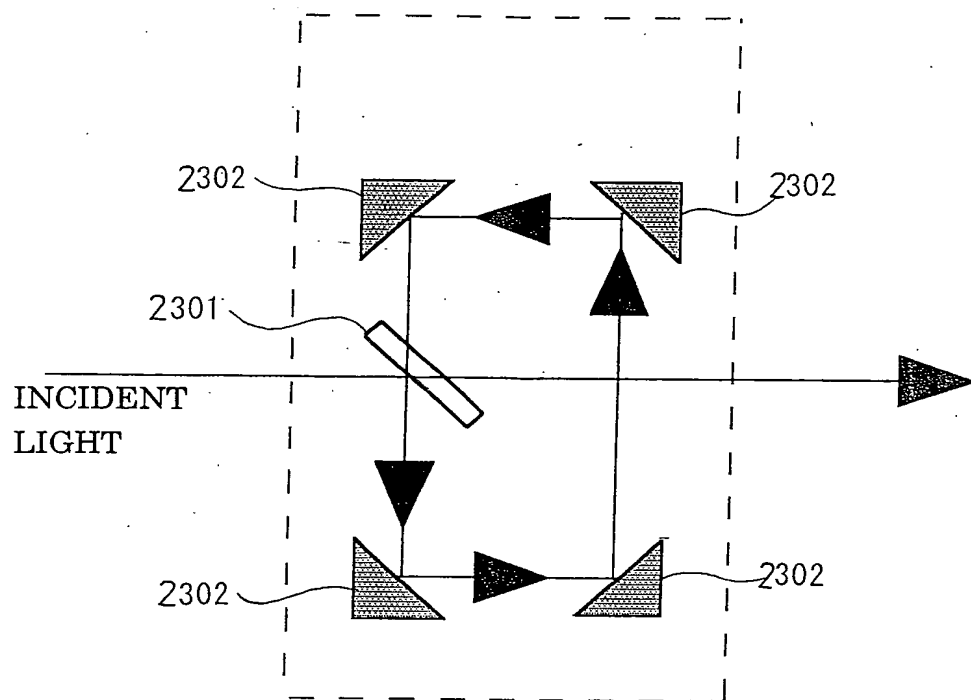


FIG. 23

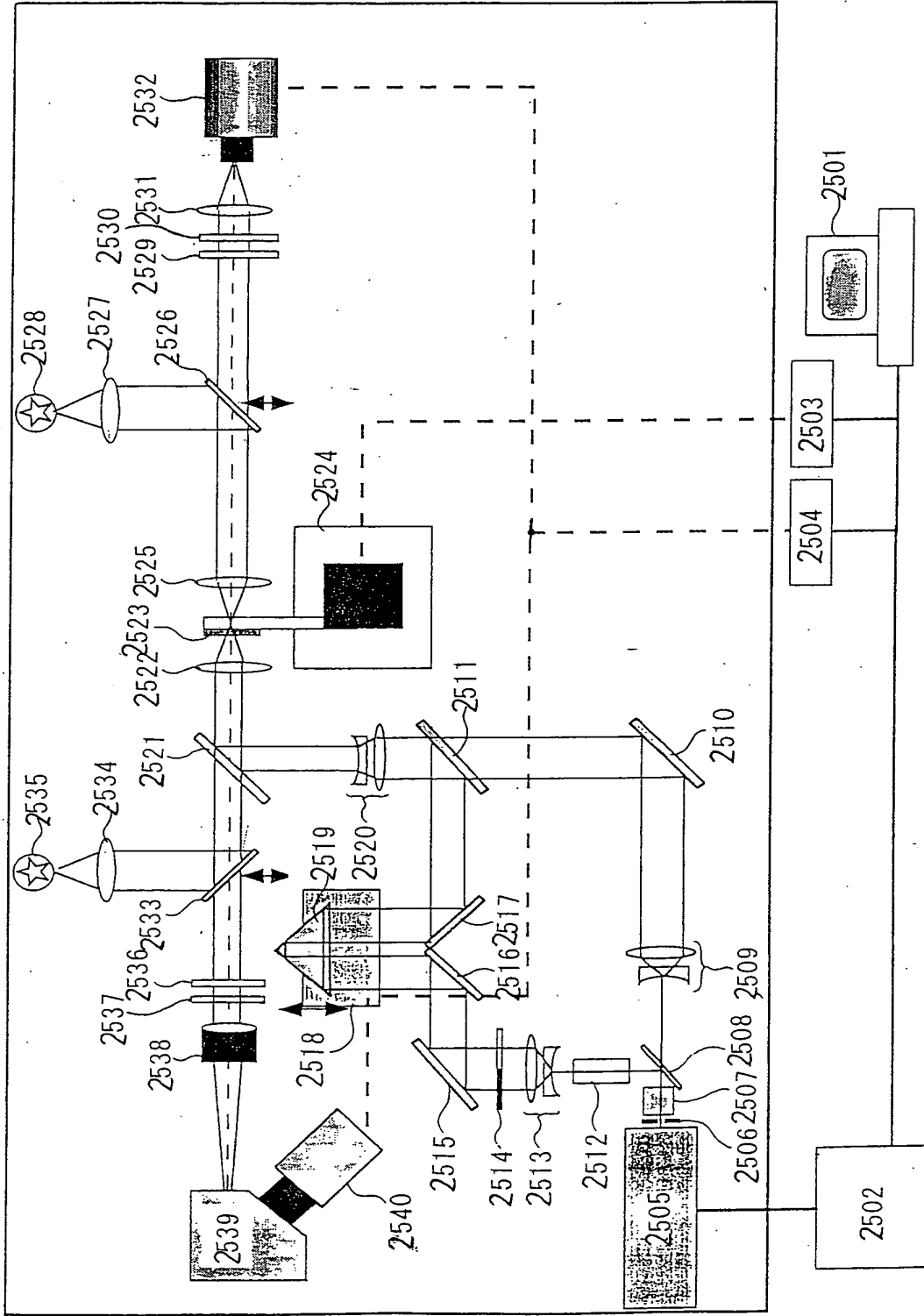
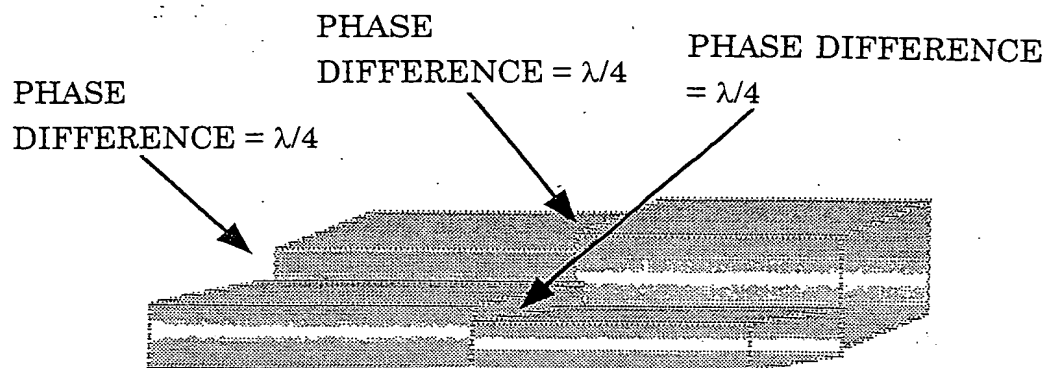


FIG. 24



F I G . 2 5

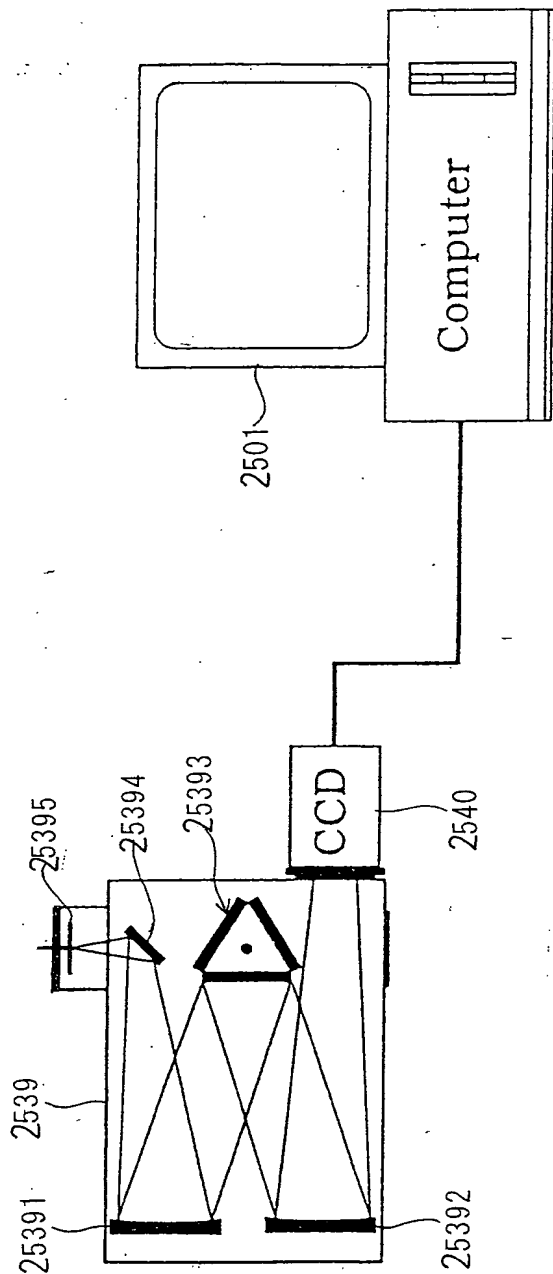


FIG. 26

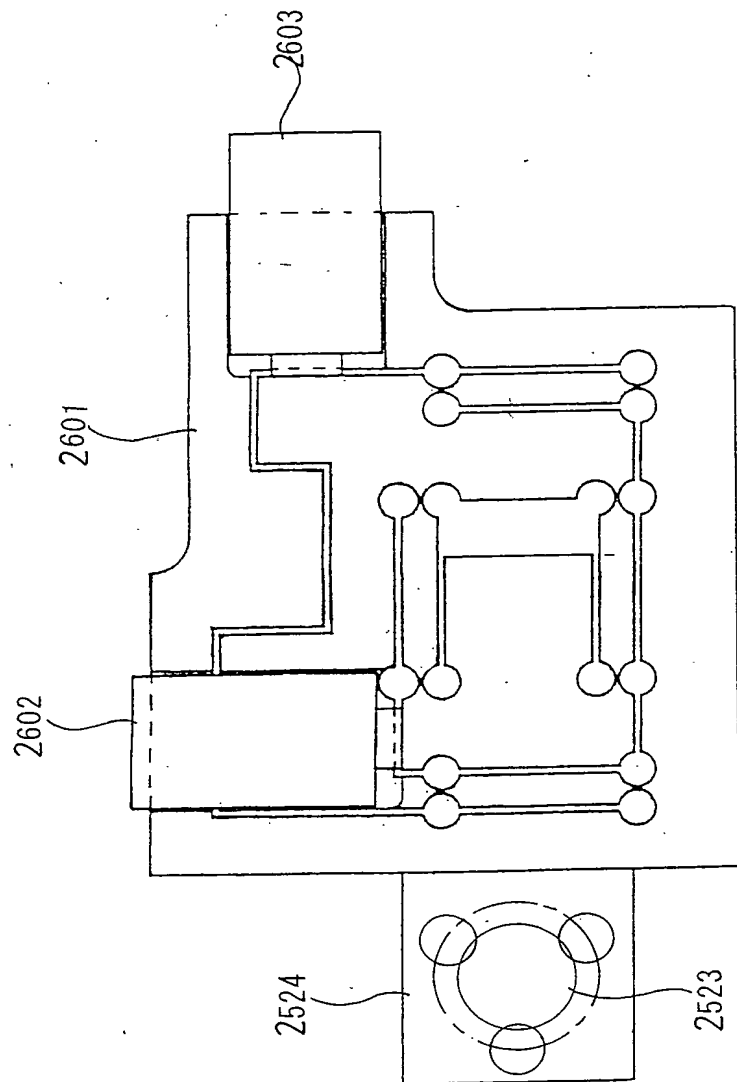


FIG. 27

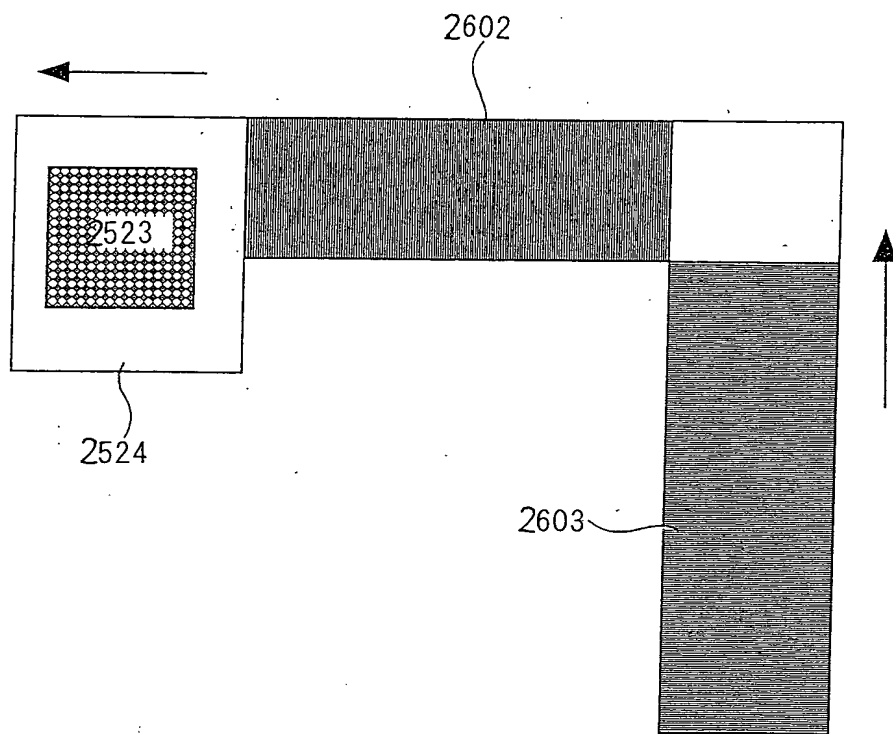


FIG. 28

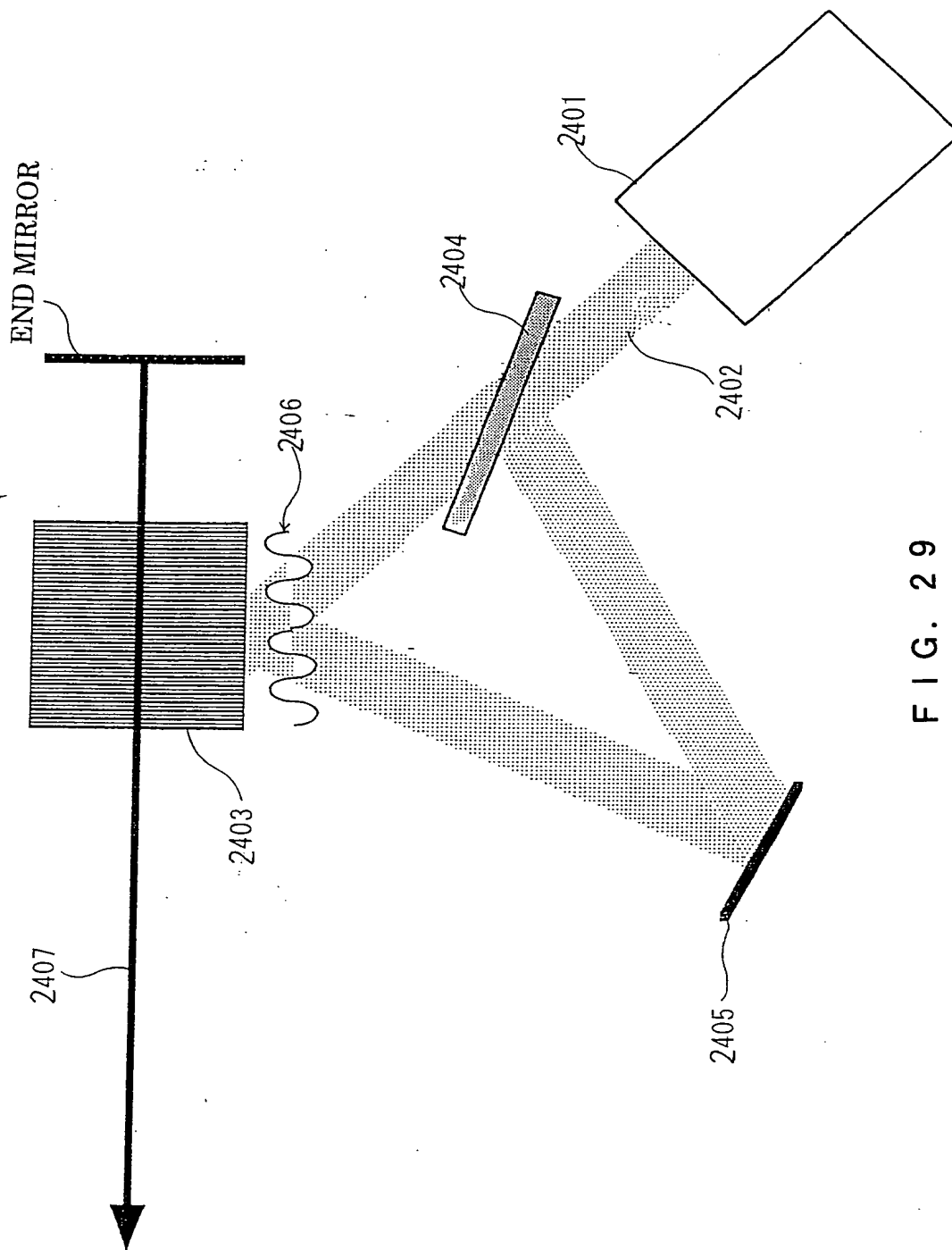


FIG. 29

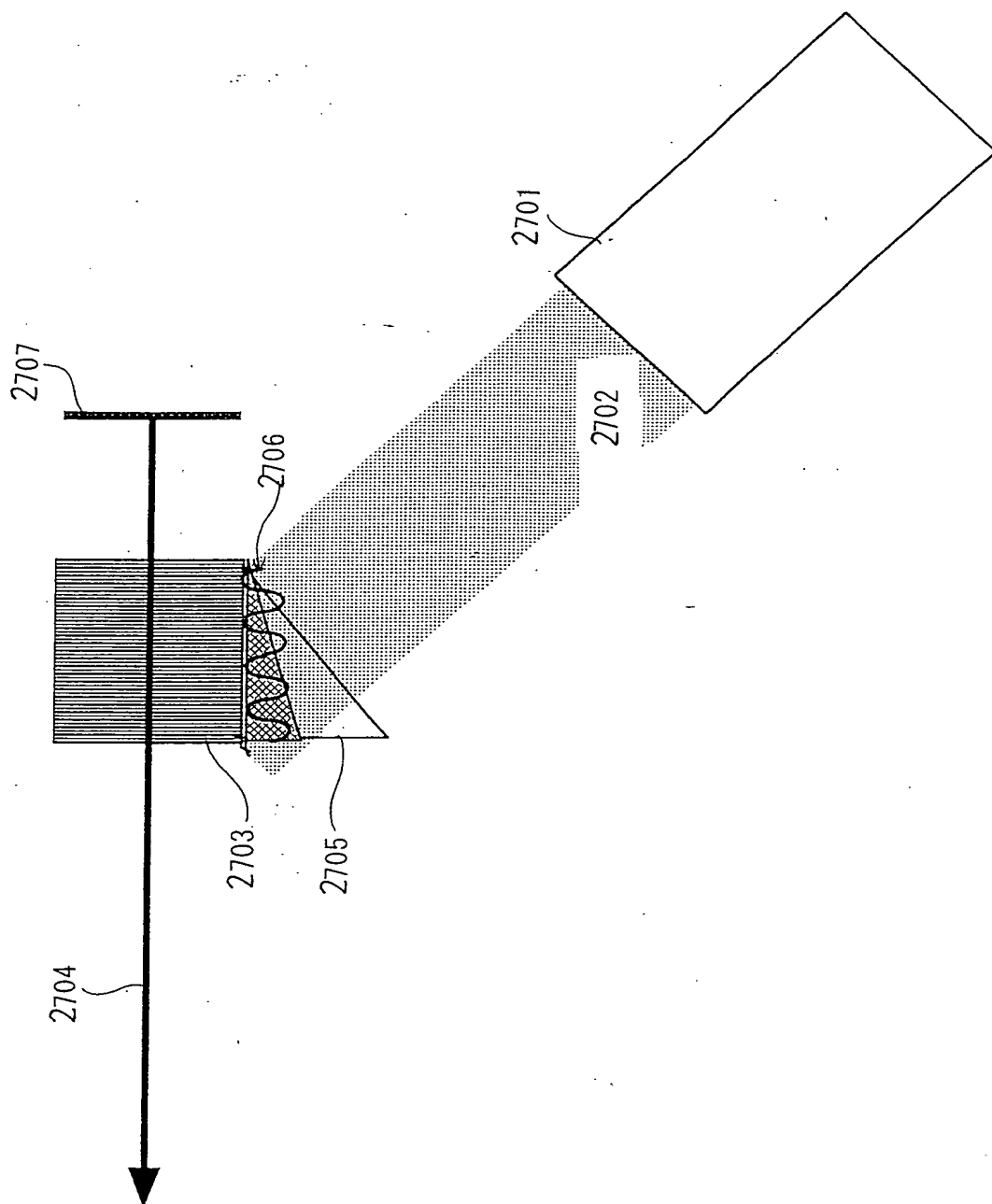


FIG. 30

Patented May 19, 1993

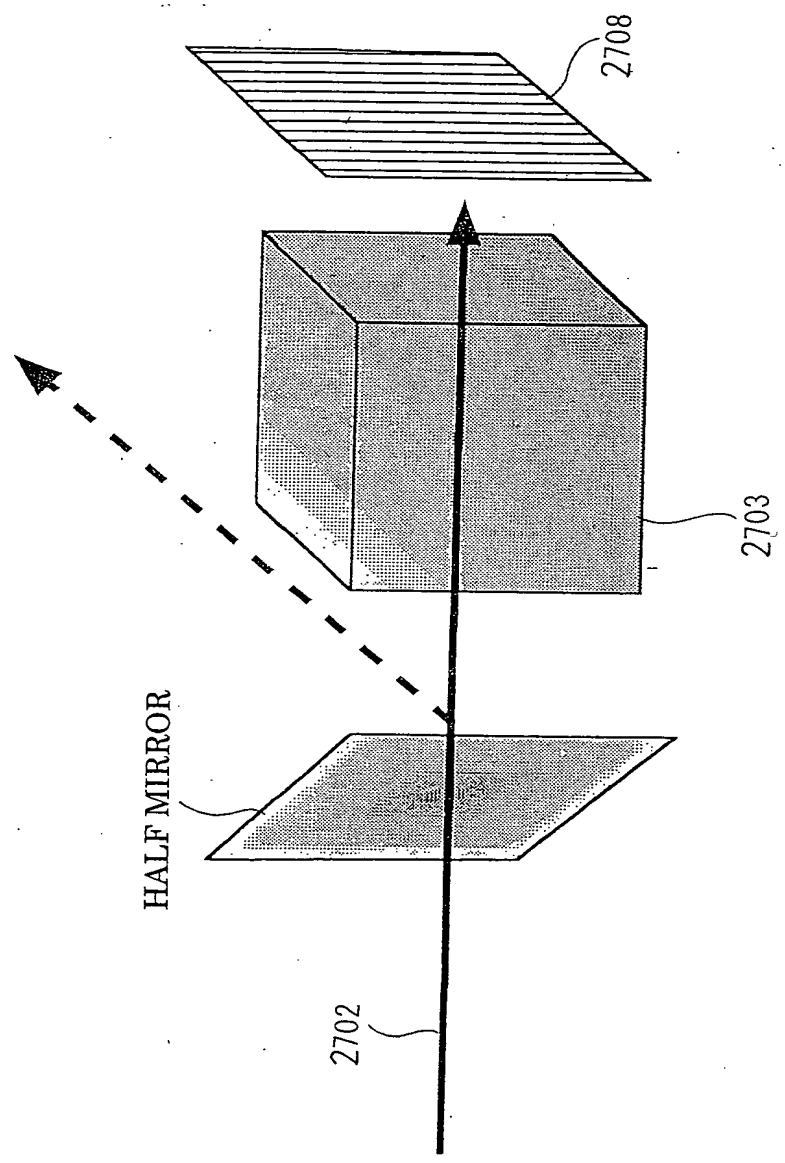
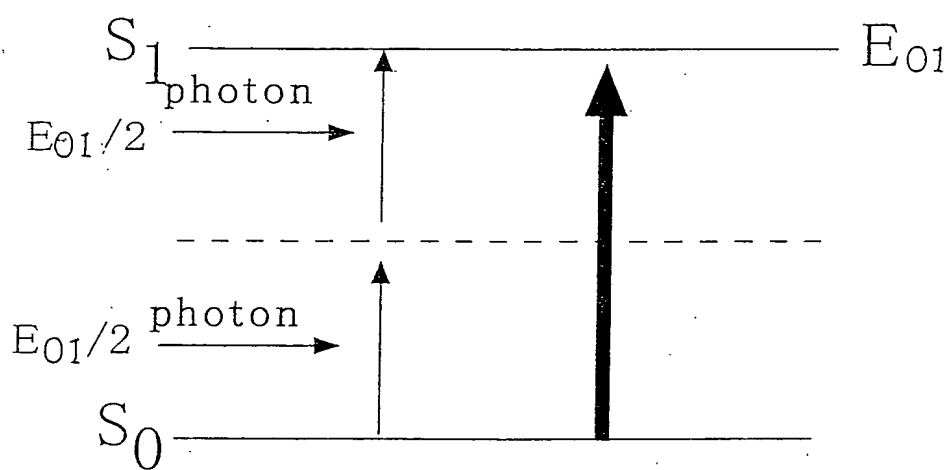


FIG. 31



F I G . 3 2

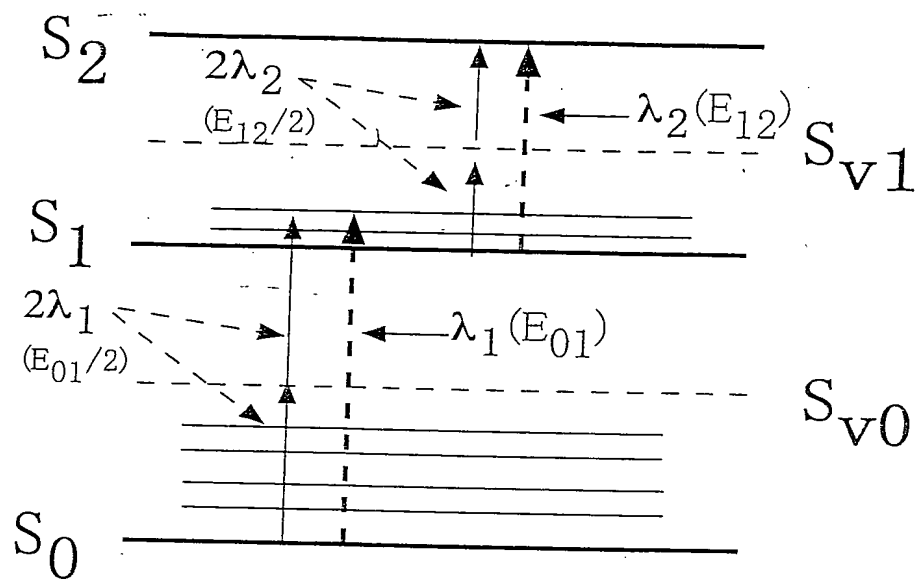


FIG. 33

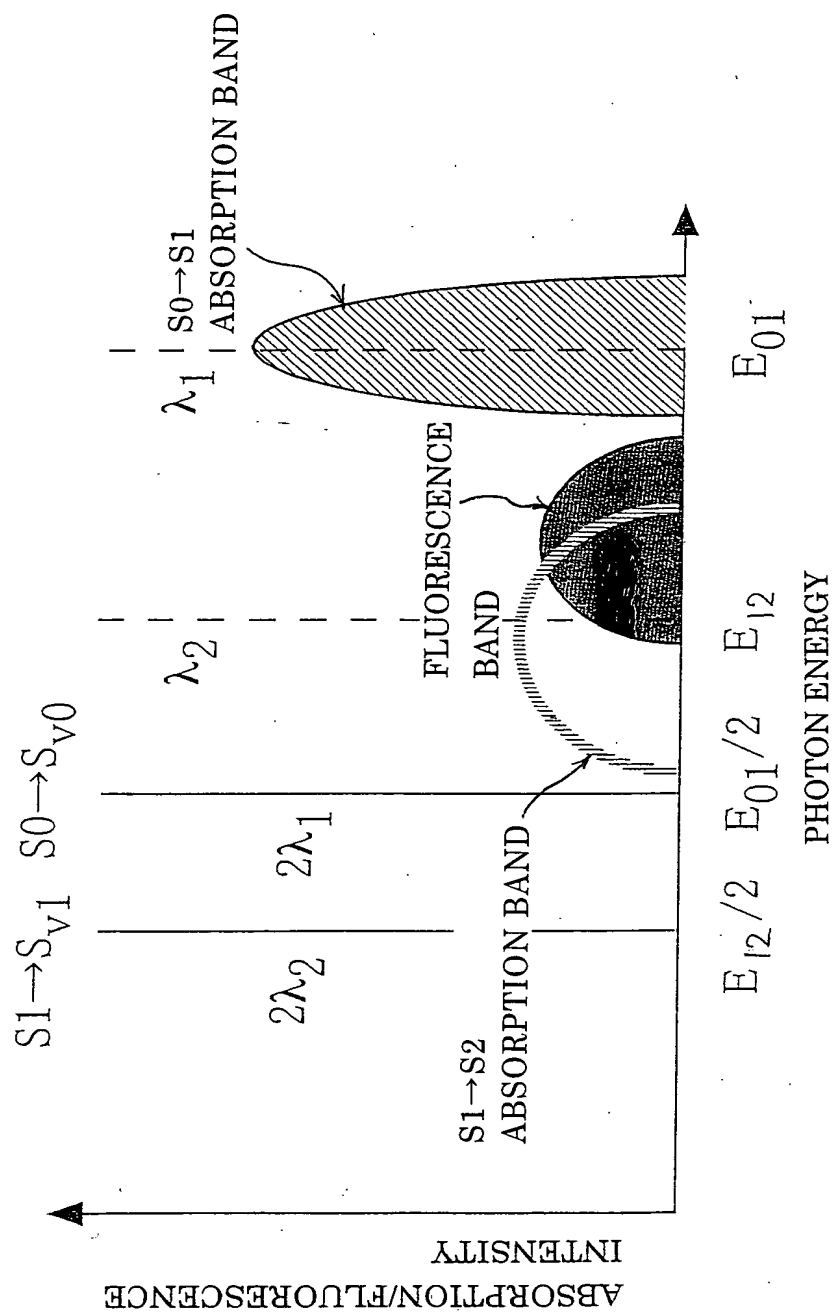
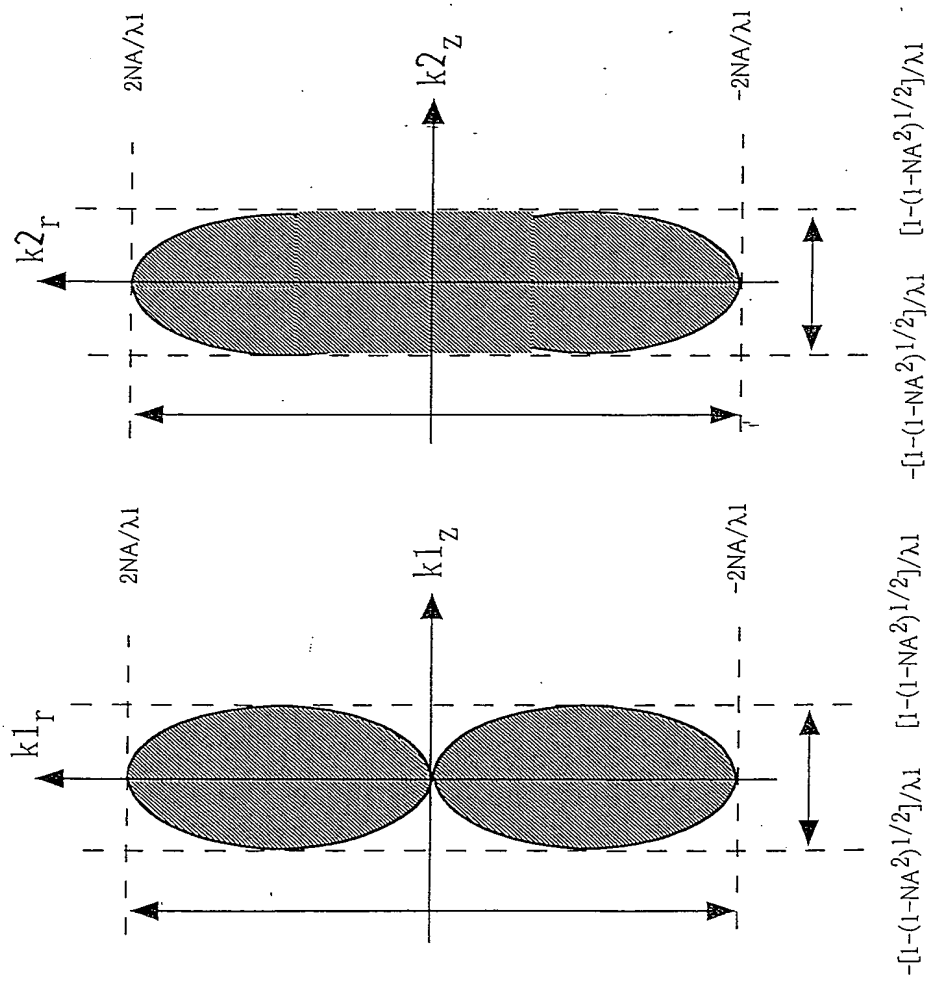


FIG. 34



(a) 1-PHOTON EXCITATION (b) NON-RESONANCE 2-PHOTON EXCITATION PROCESS

FIG. 35

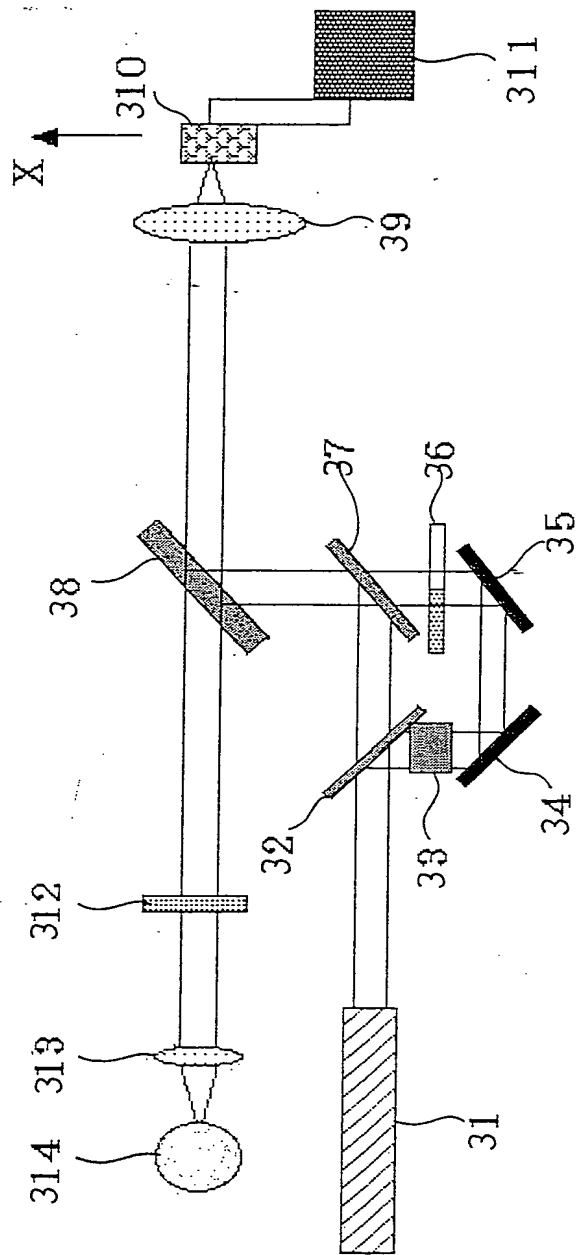


FIG. 36

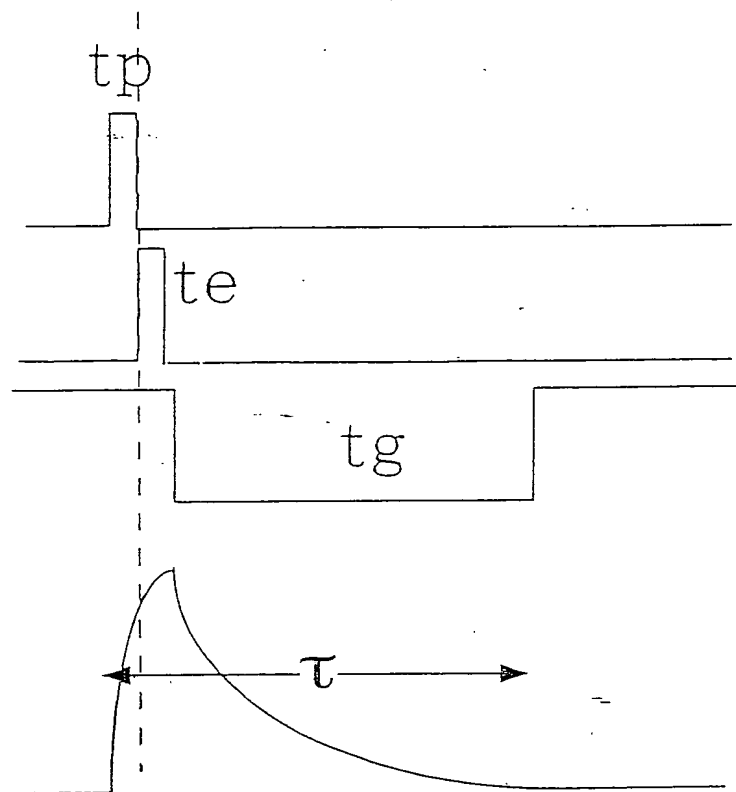


FIG. 37

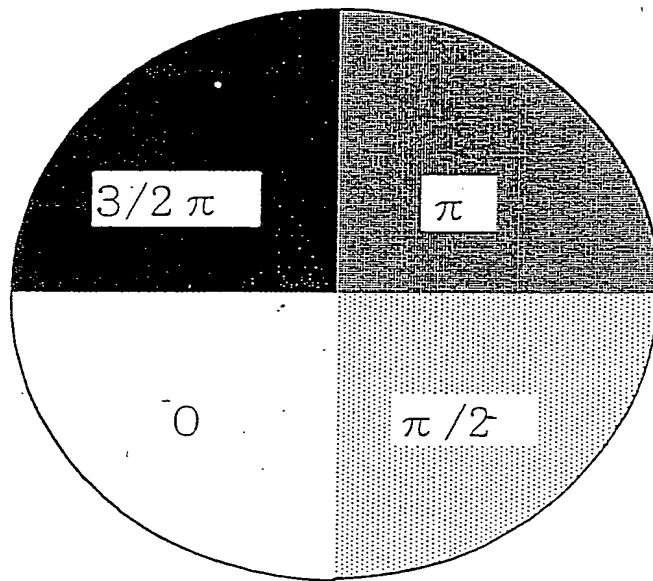


FIG. 38

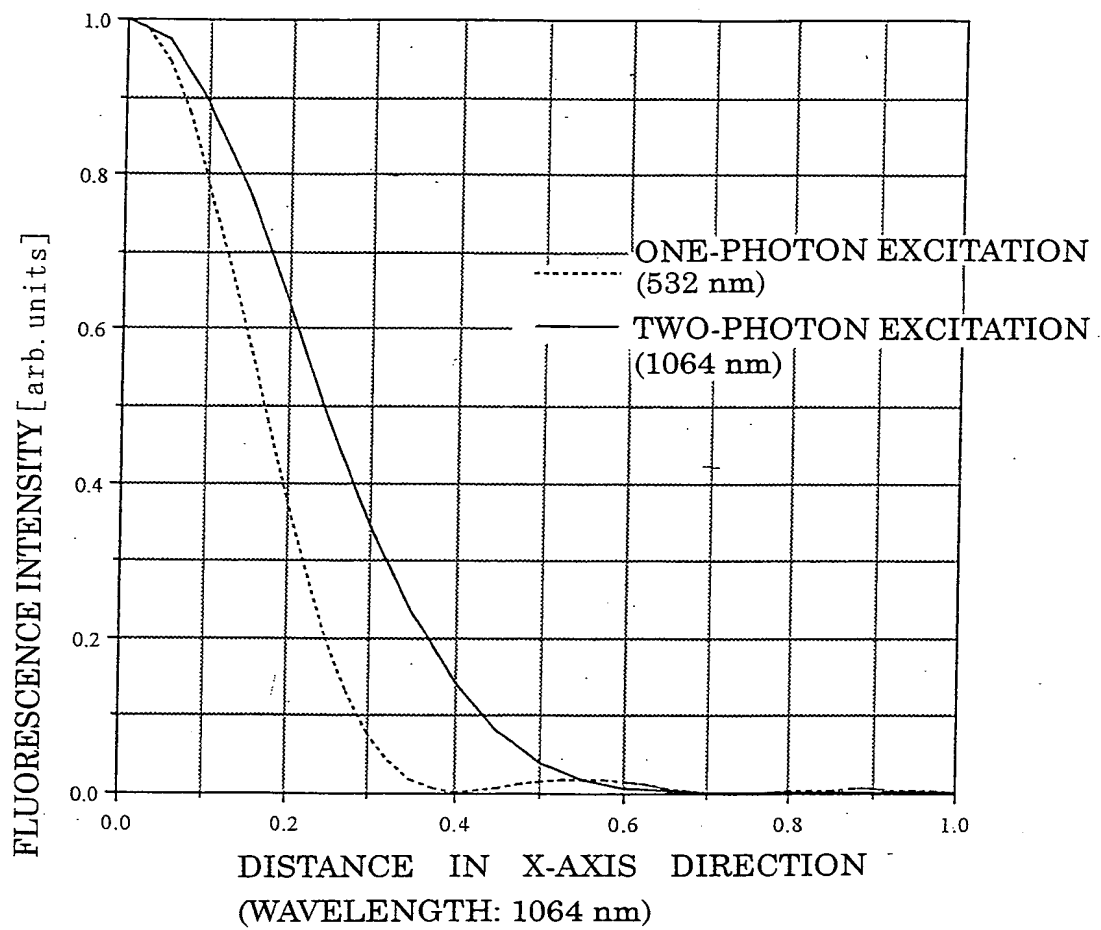


FIG. 39

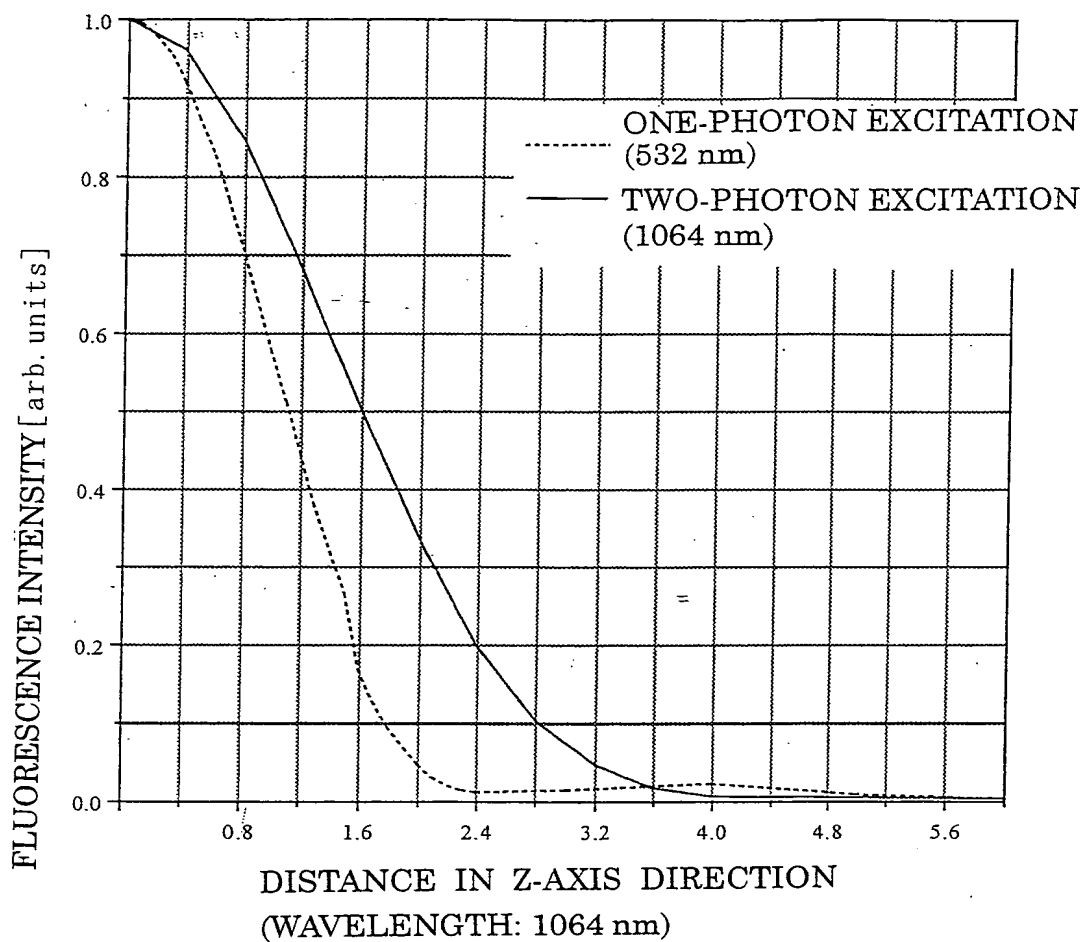


FIG. 40

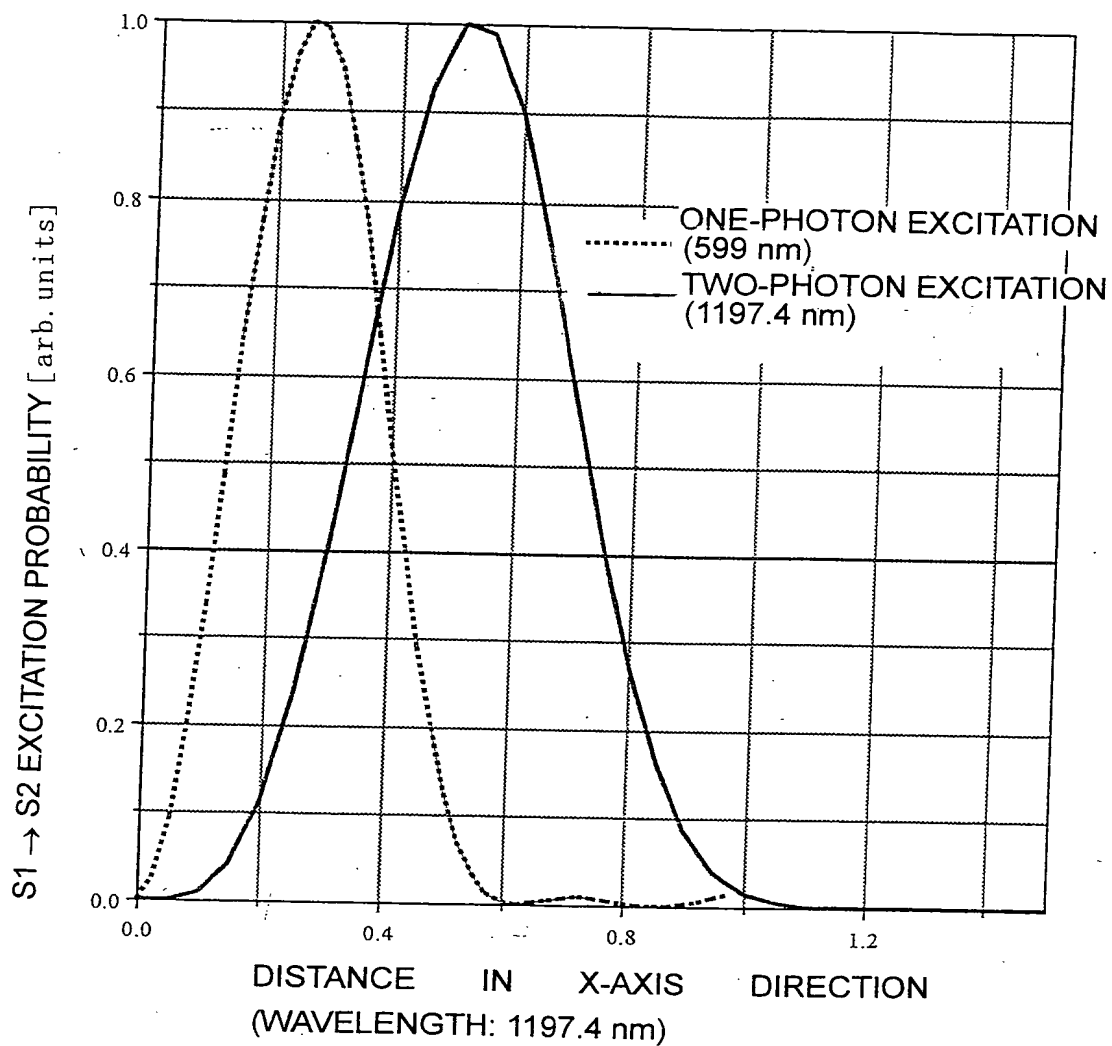
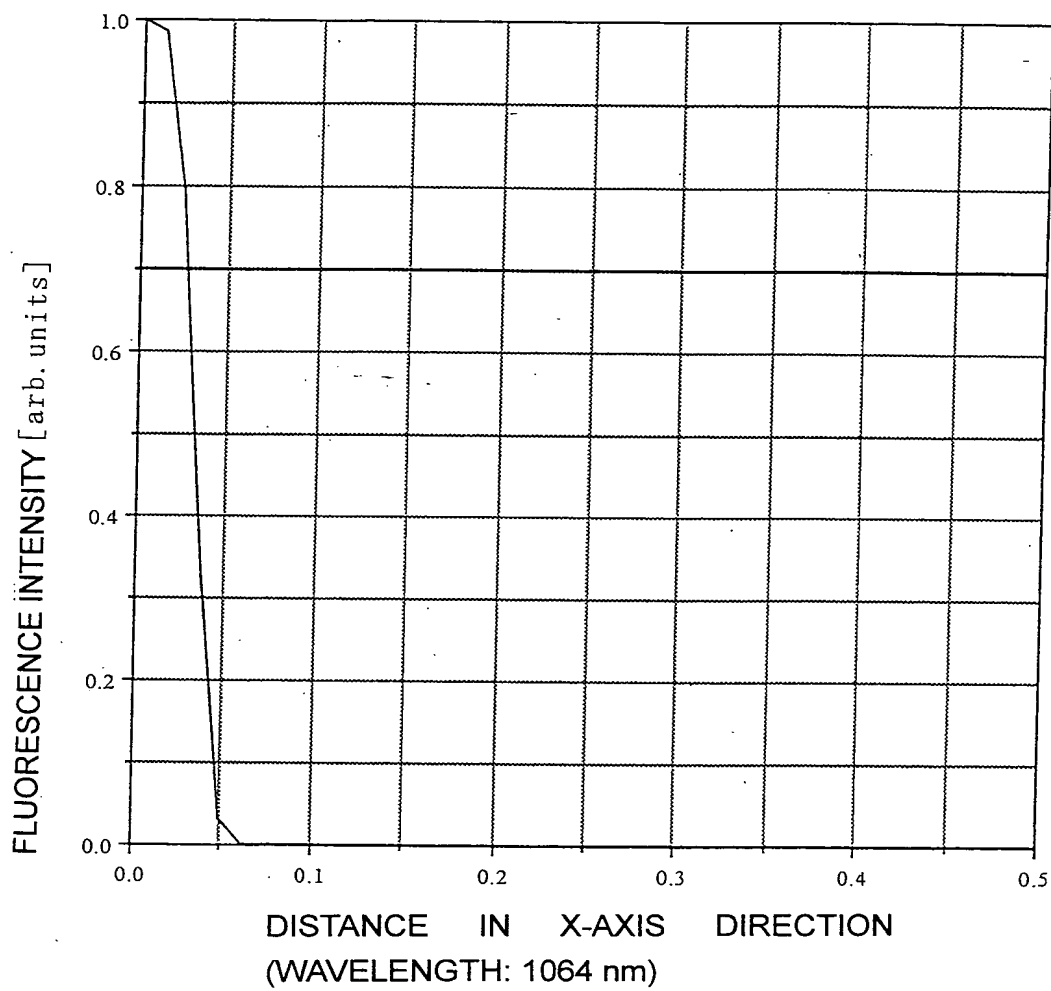


FIG. 41



F I G . 4 2

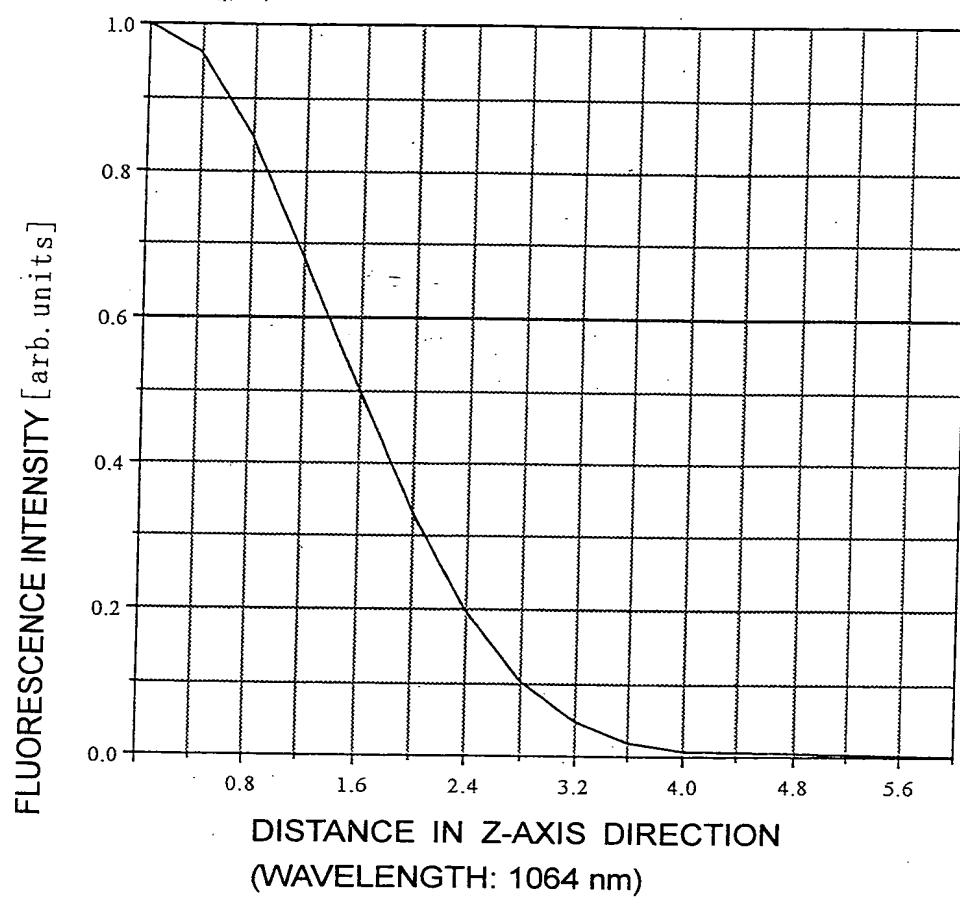


FIG. 43

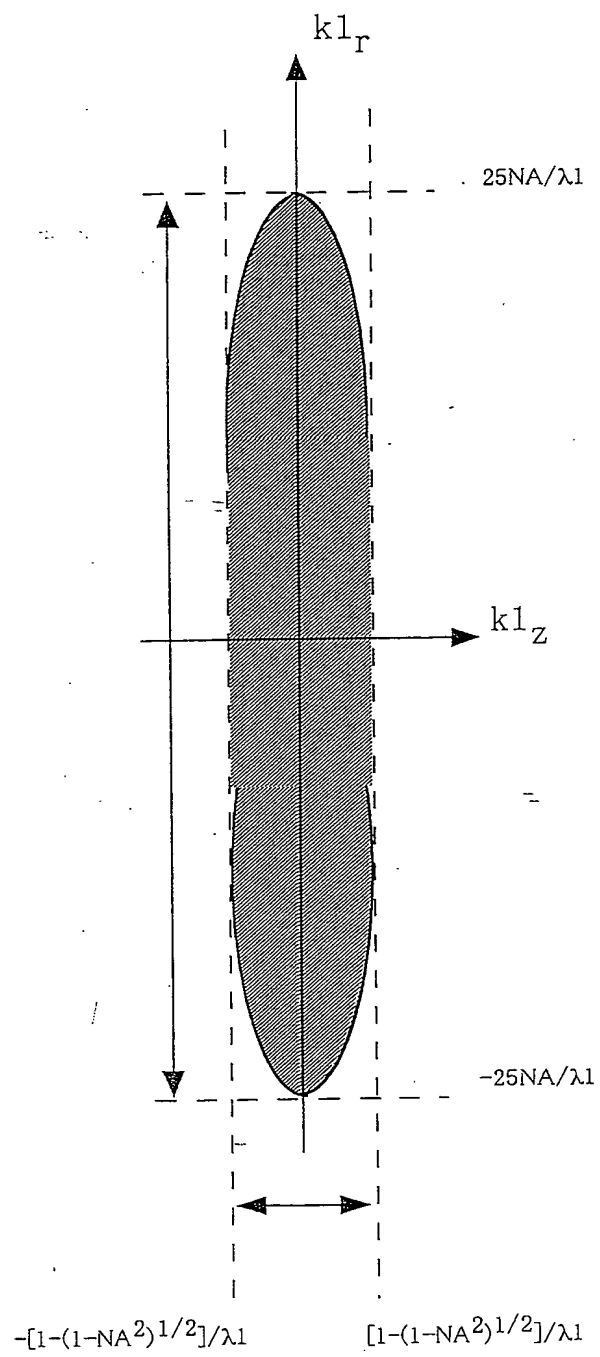


FIG. 44

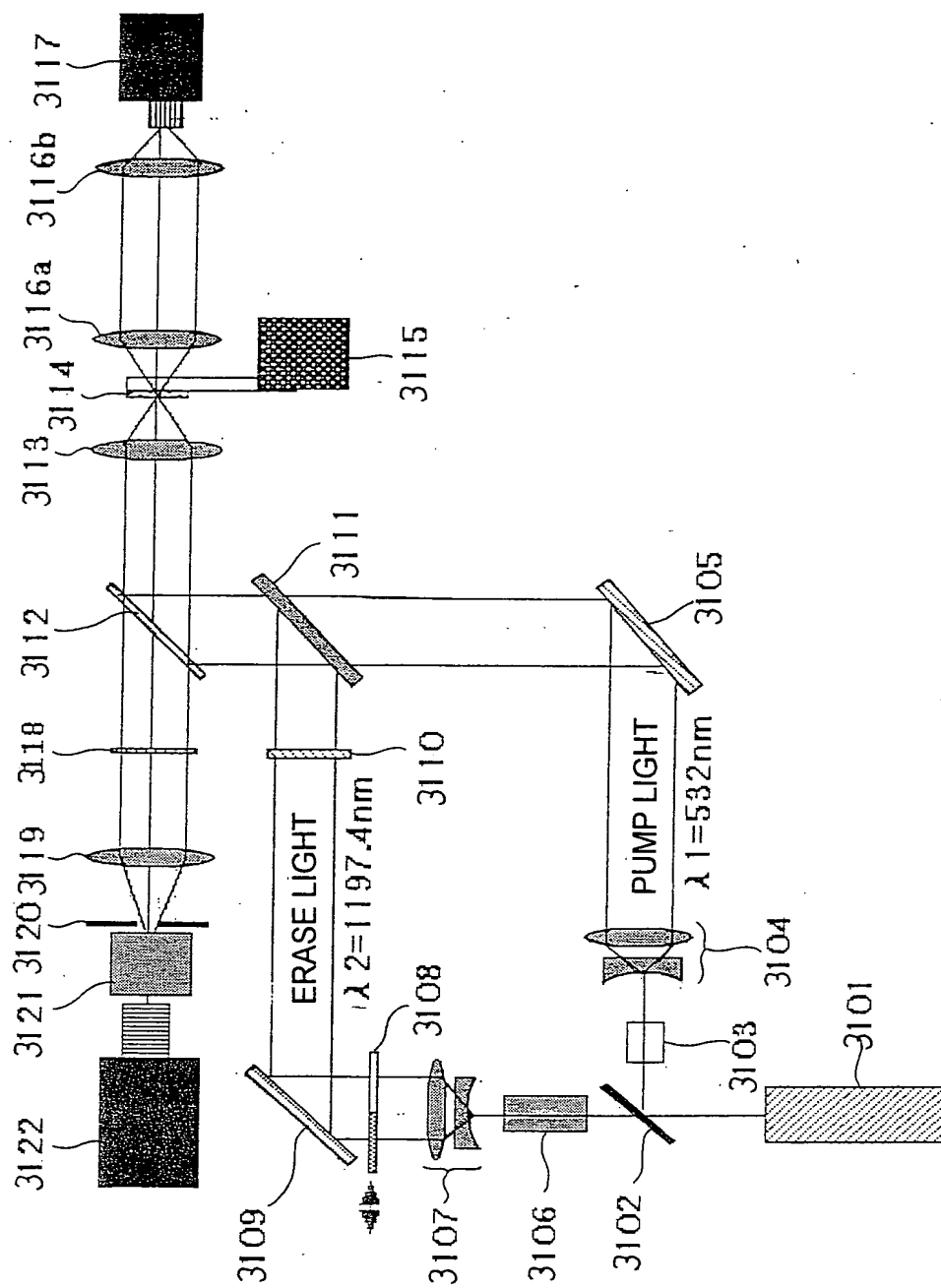


FIG. 45

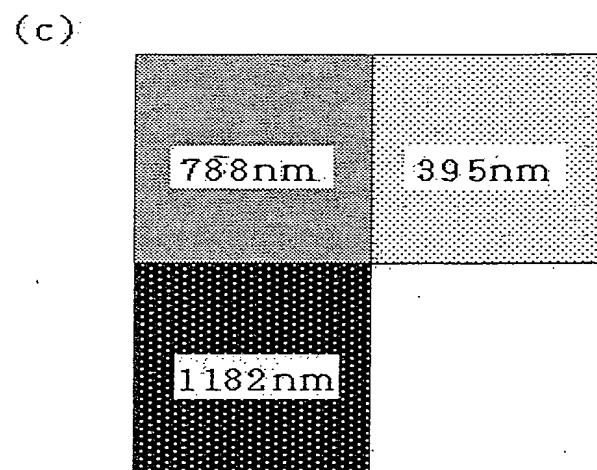
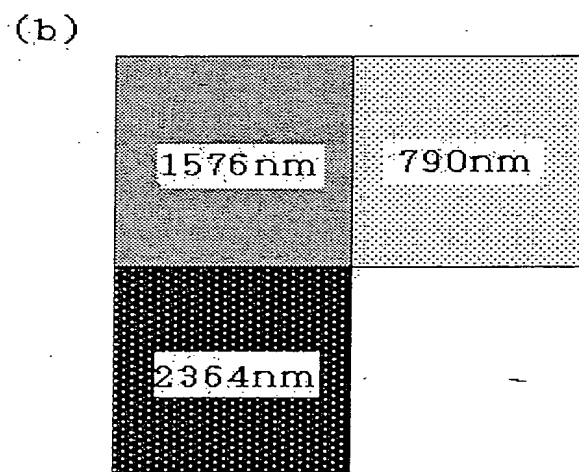
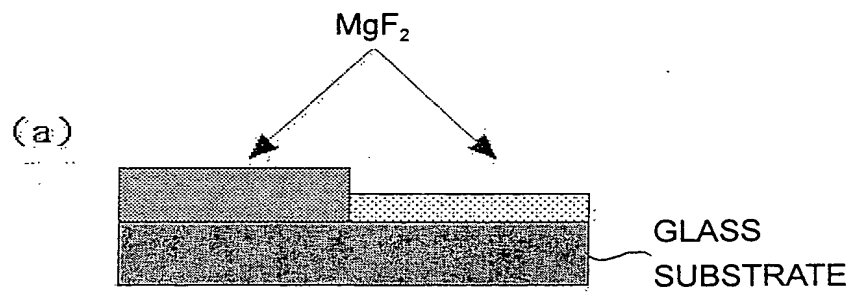


FIG. 46

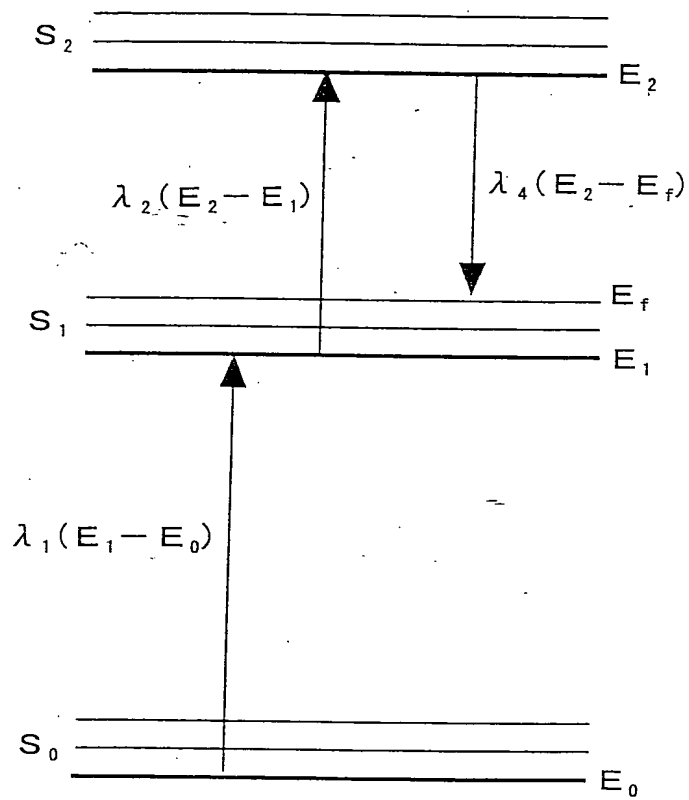


FIG. 47

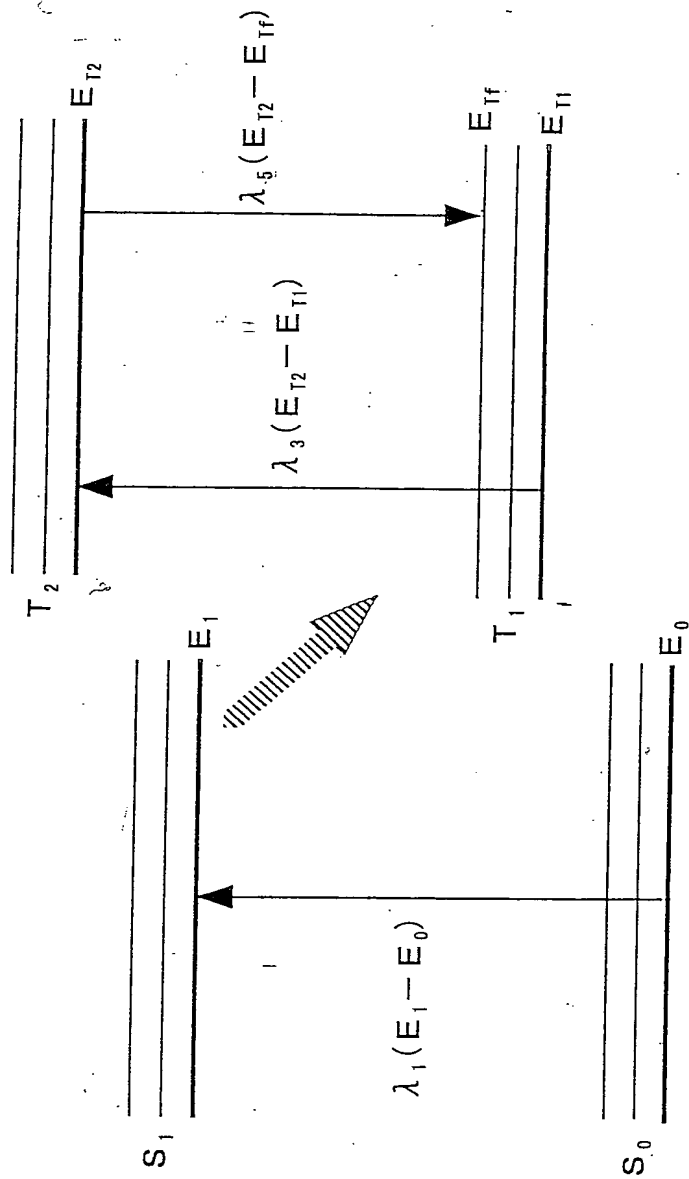
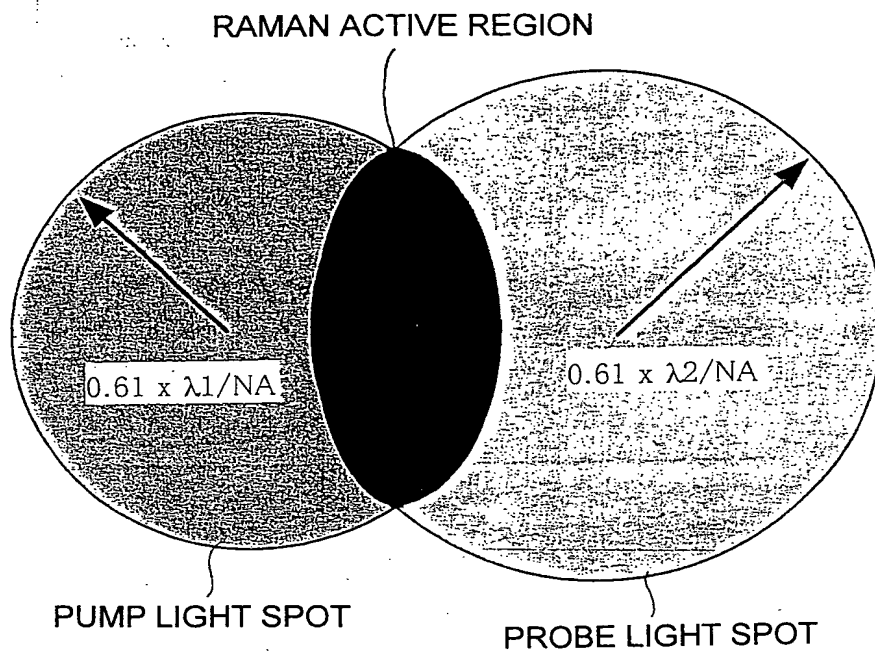


FIG. 48



F I G . 4 9

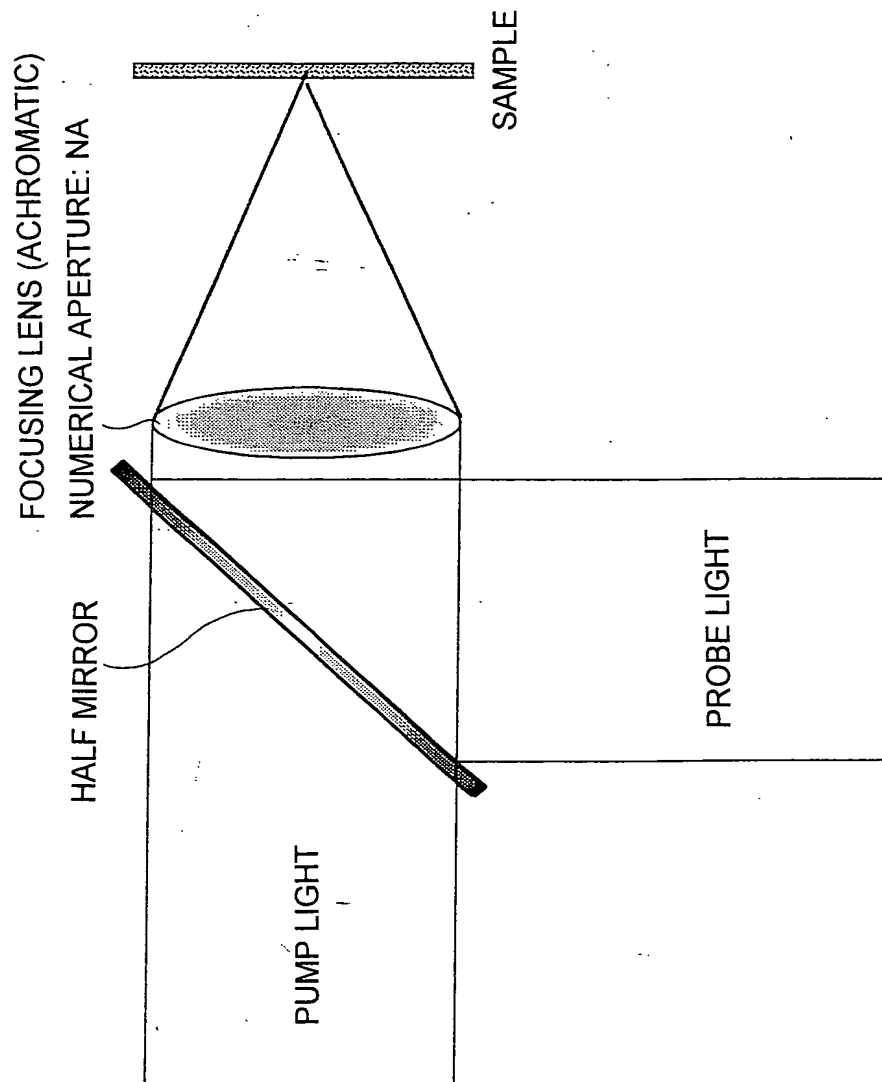


FIG. 50

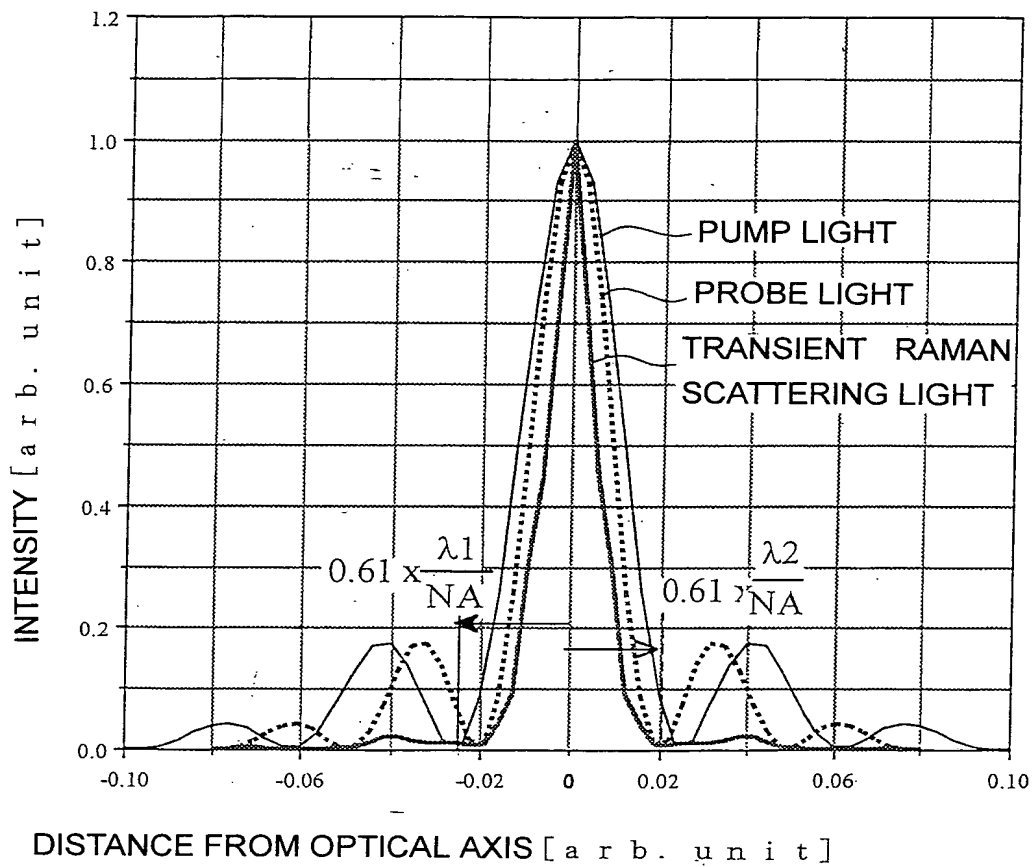
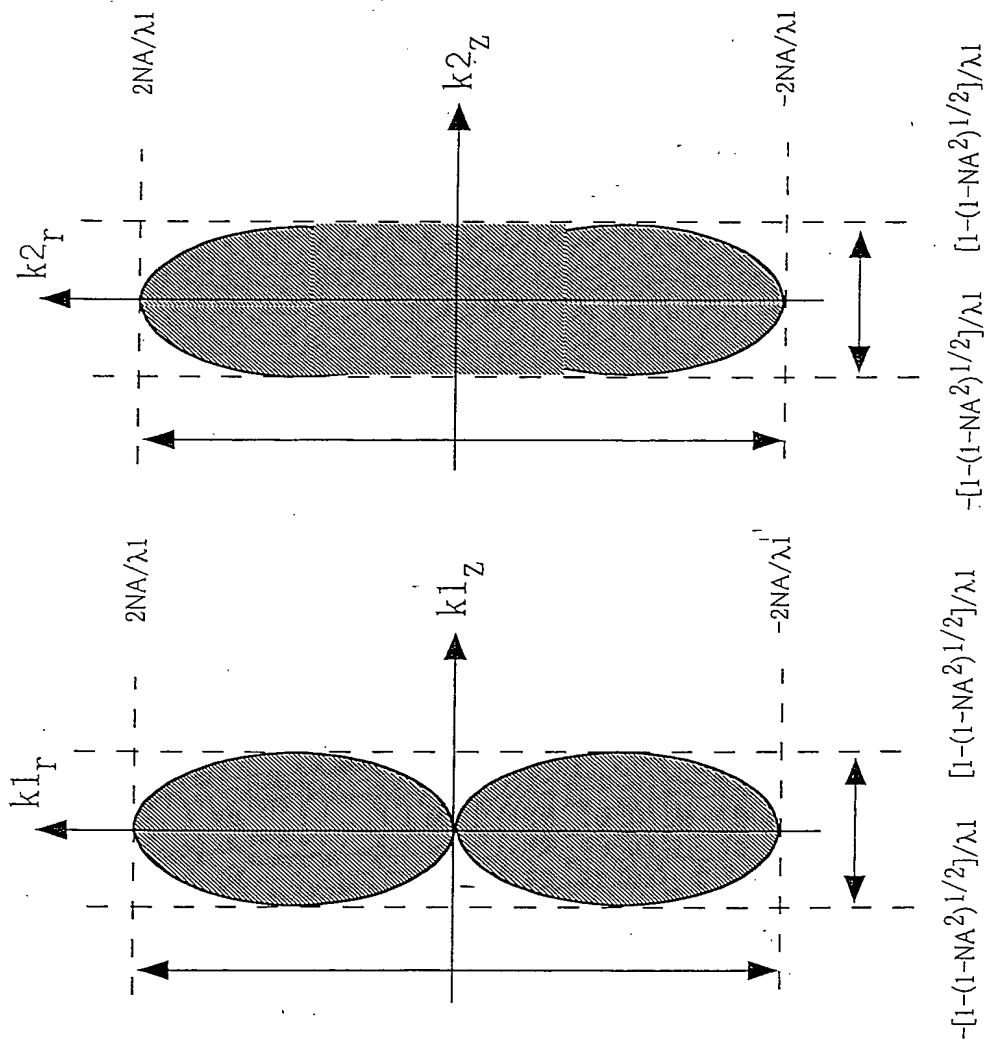


FIG. 51



(a) NORMAL ONE-PHOTON EXCITATION (b) TRANSIENT RAMAN PROCESS
PROCESS

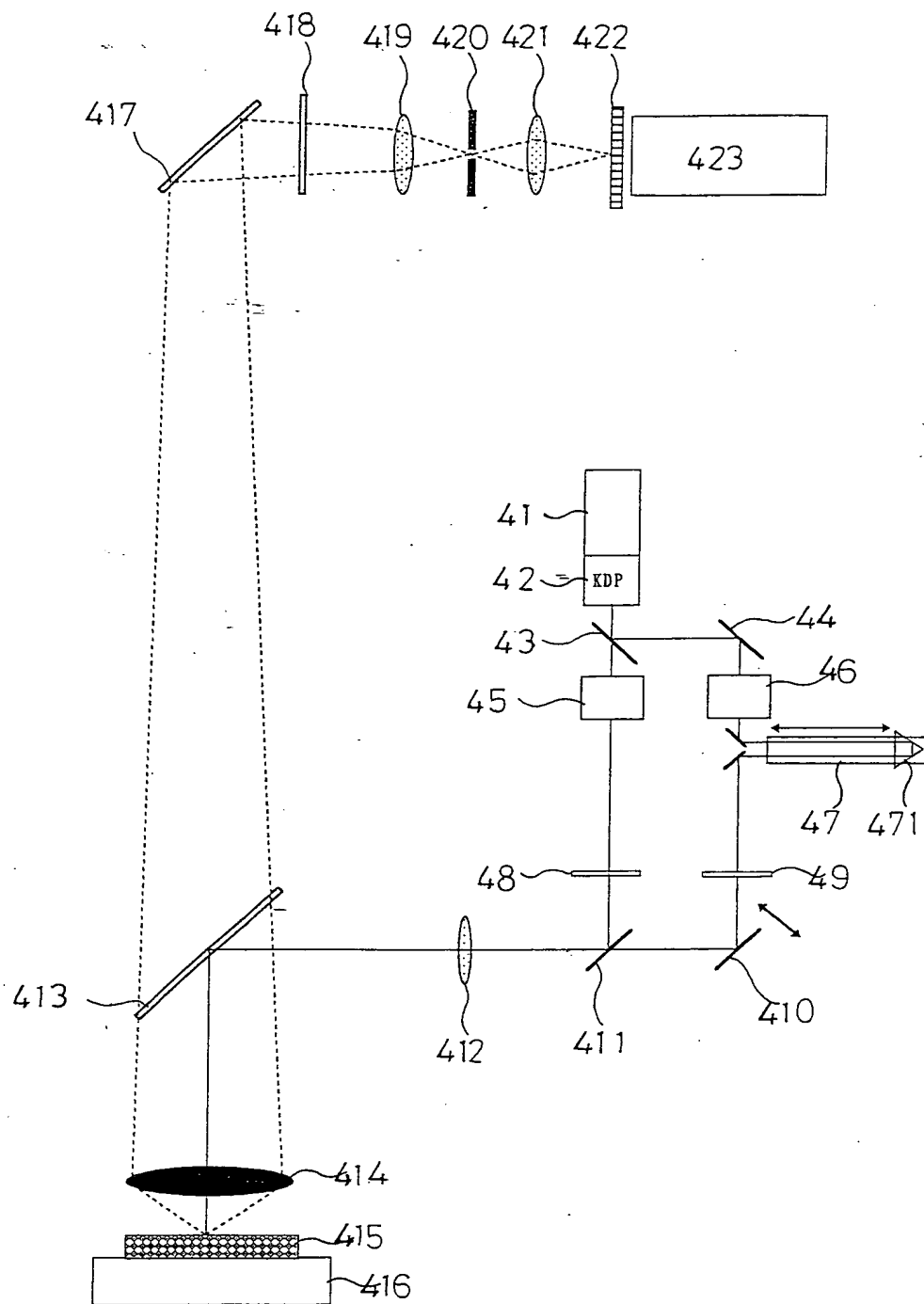


FIG. 53

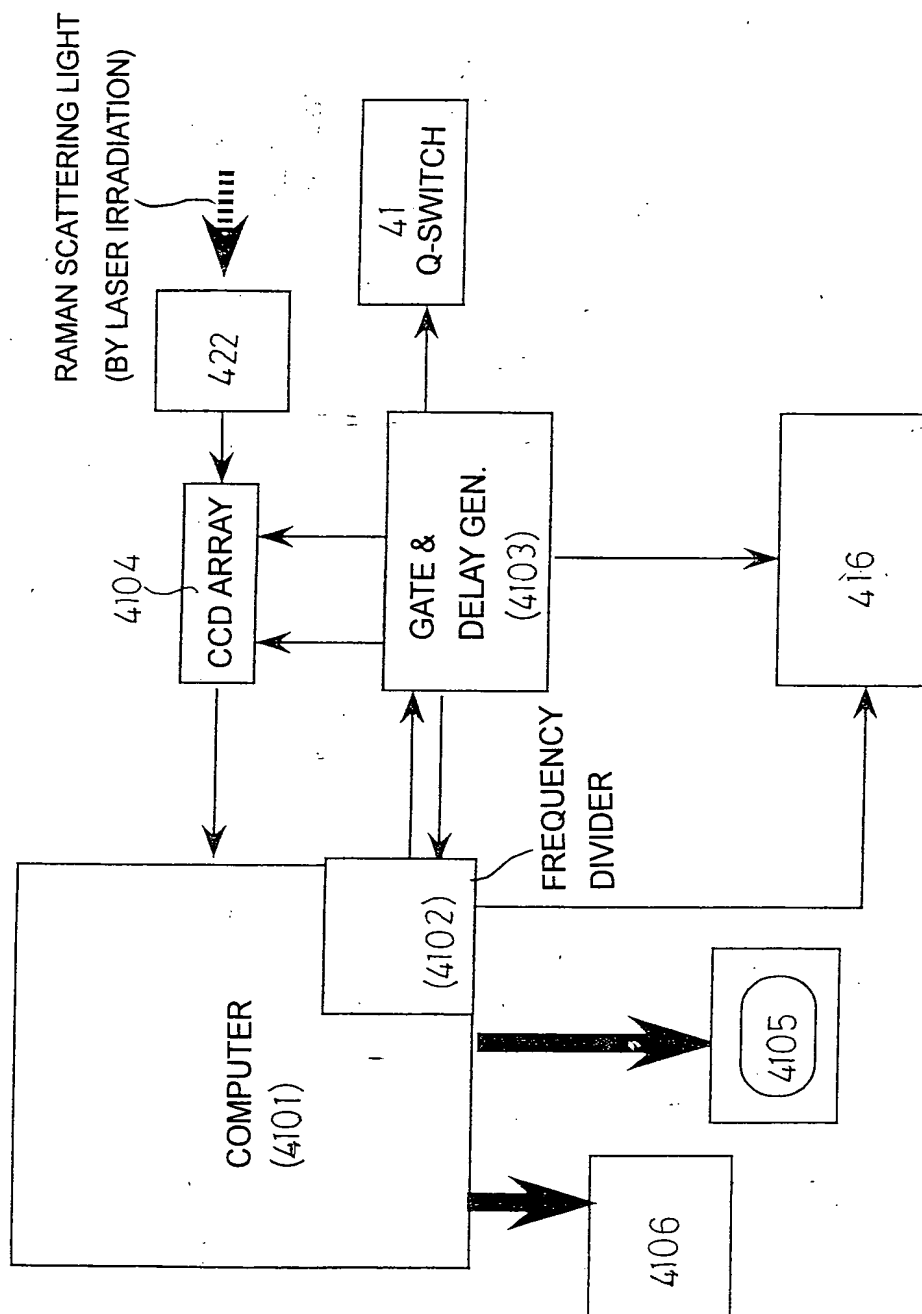


FIG. 54

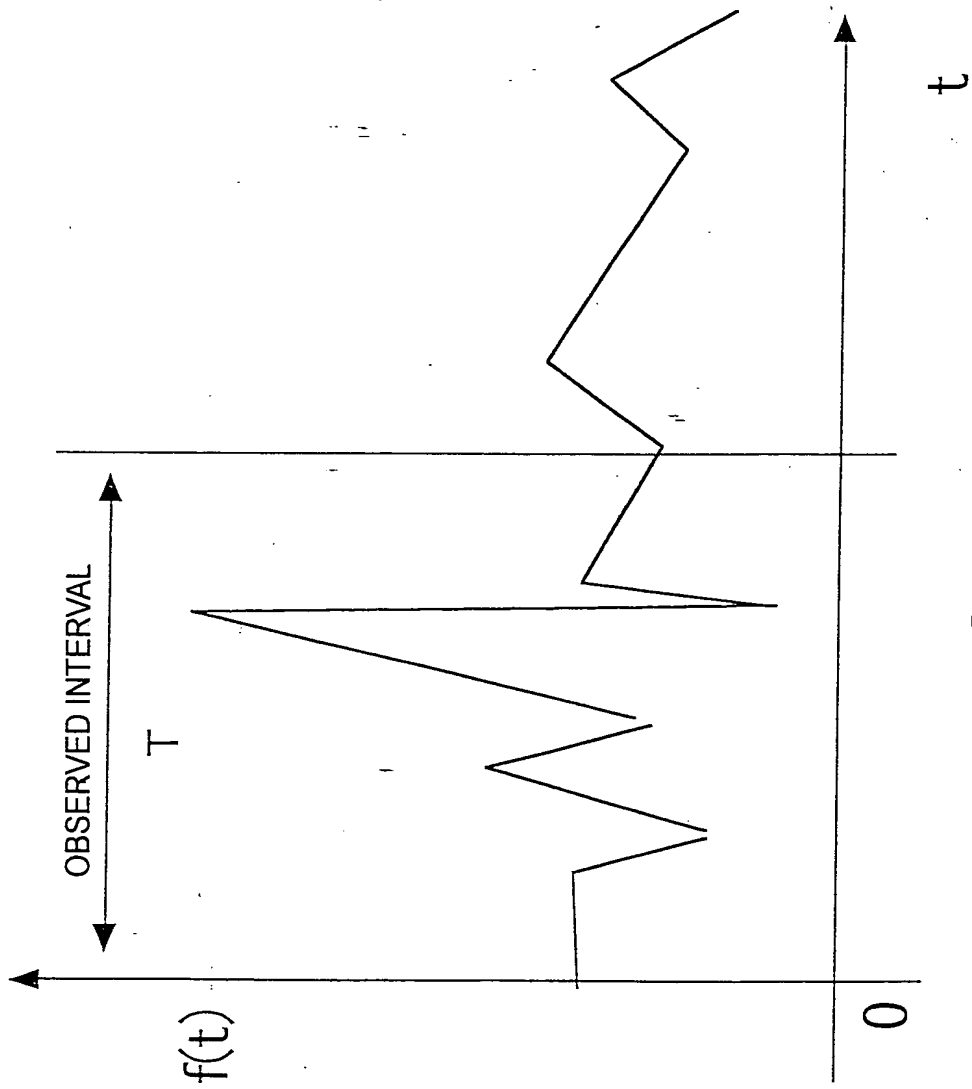


FIG. 55

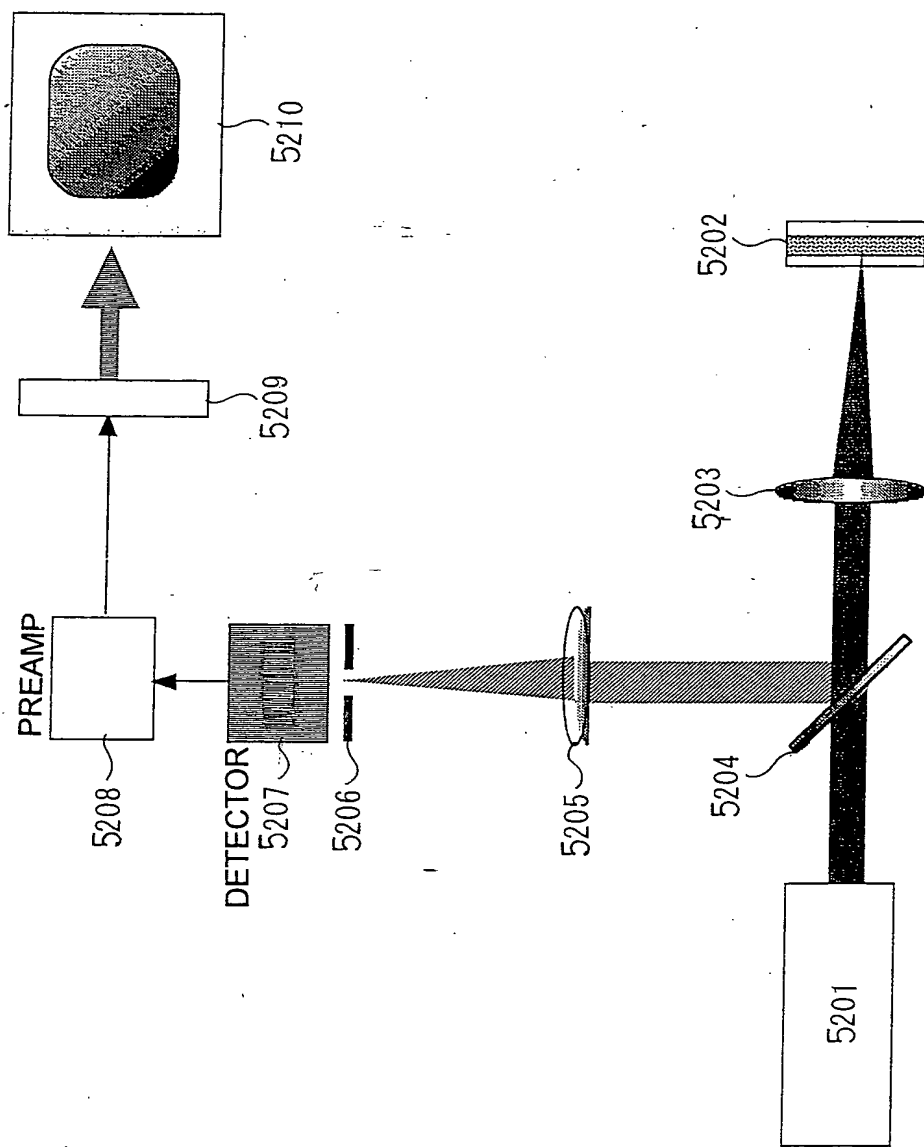


FIG. 56

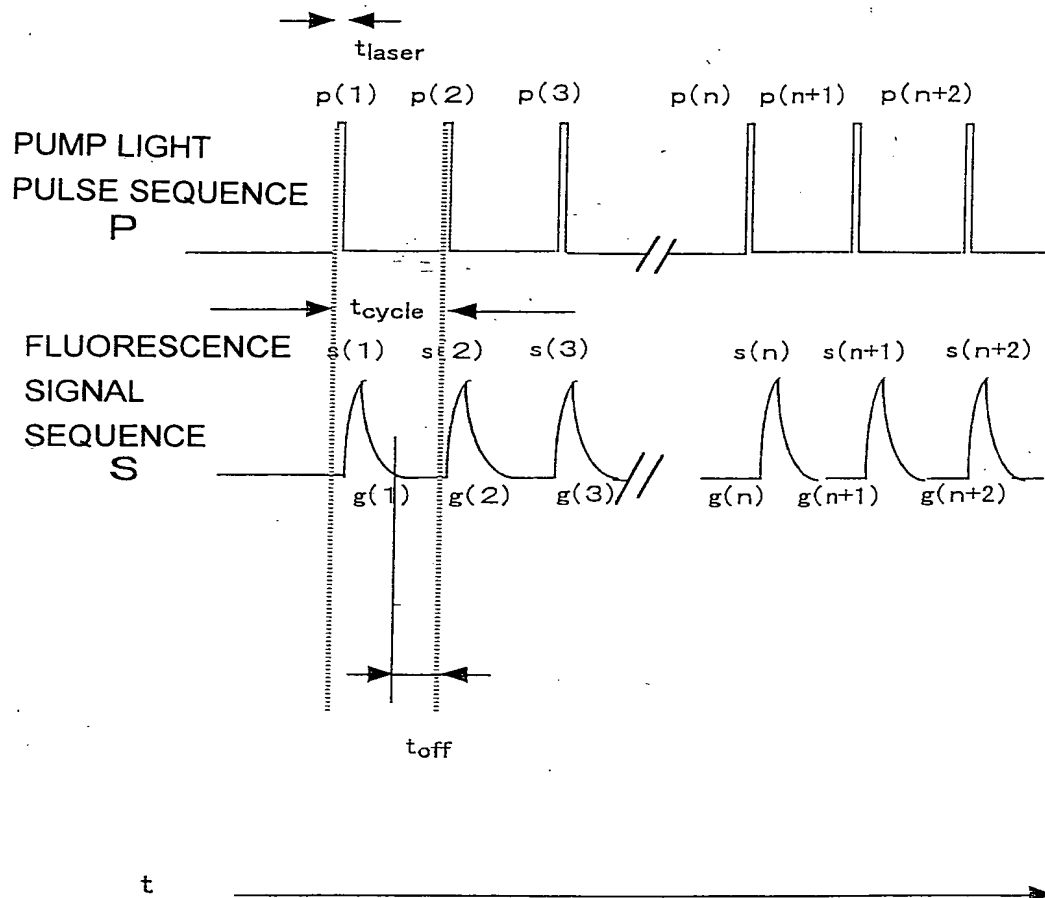


FIG. 57

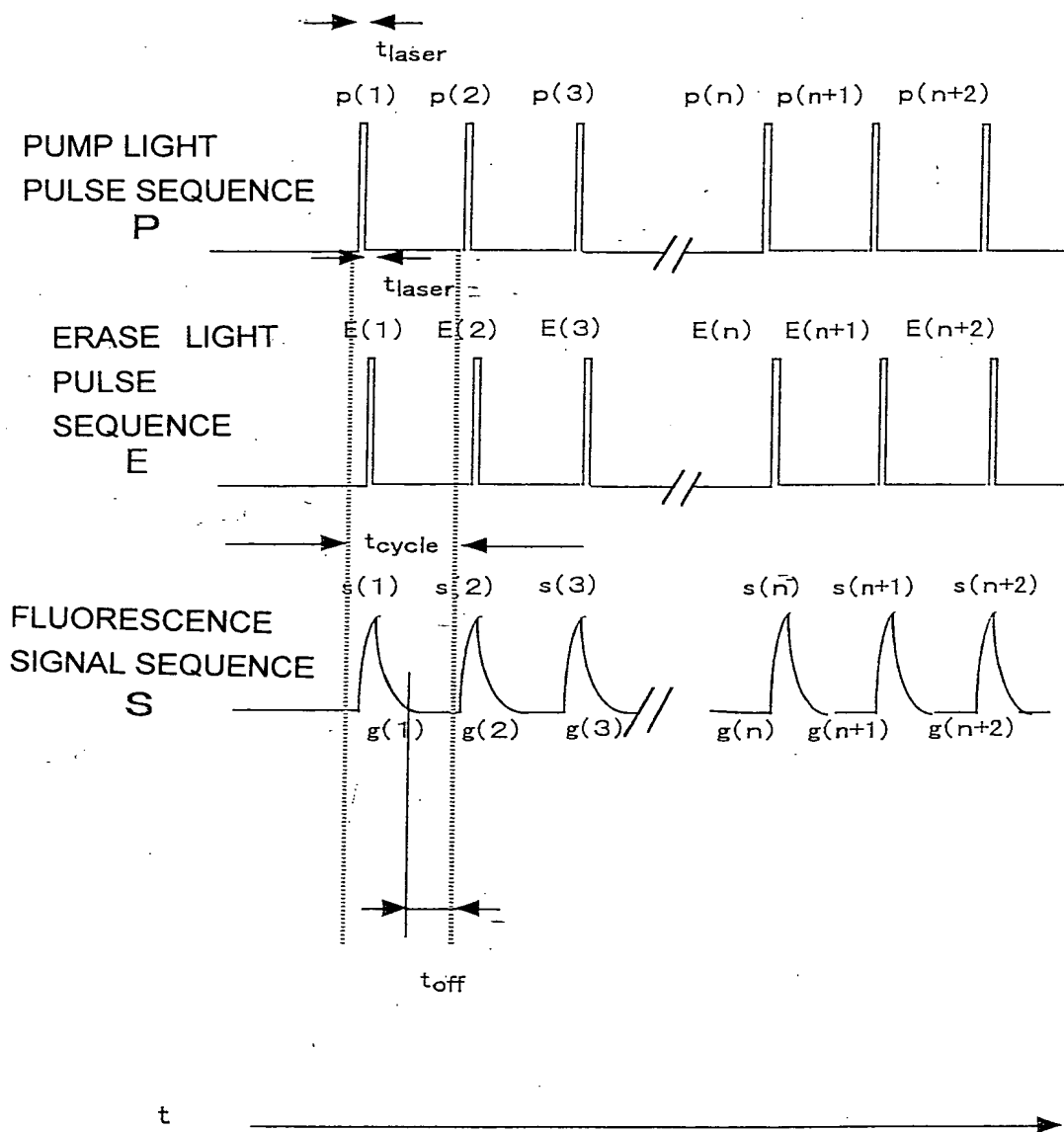


FIG. 58

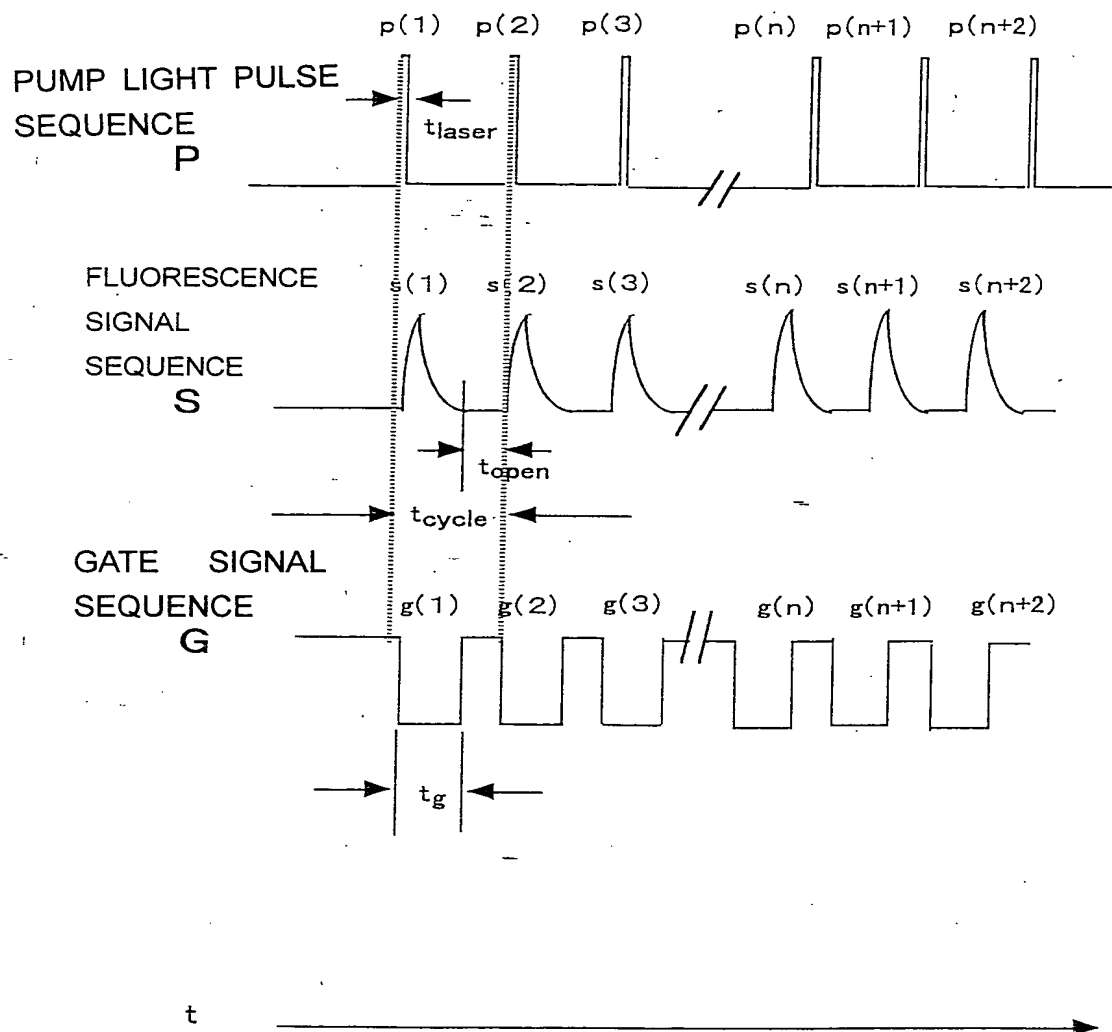


FIG. 59

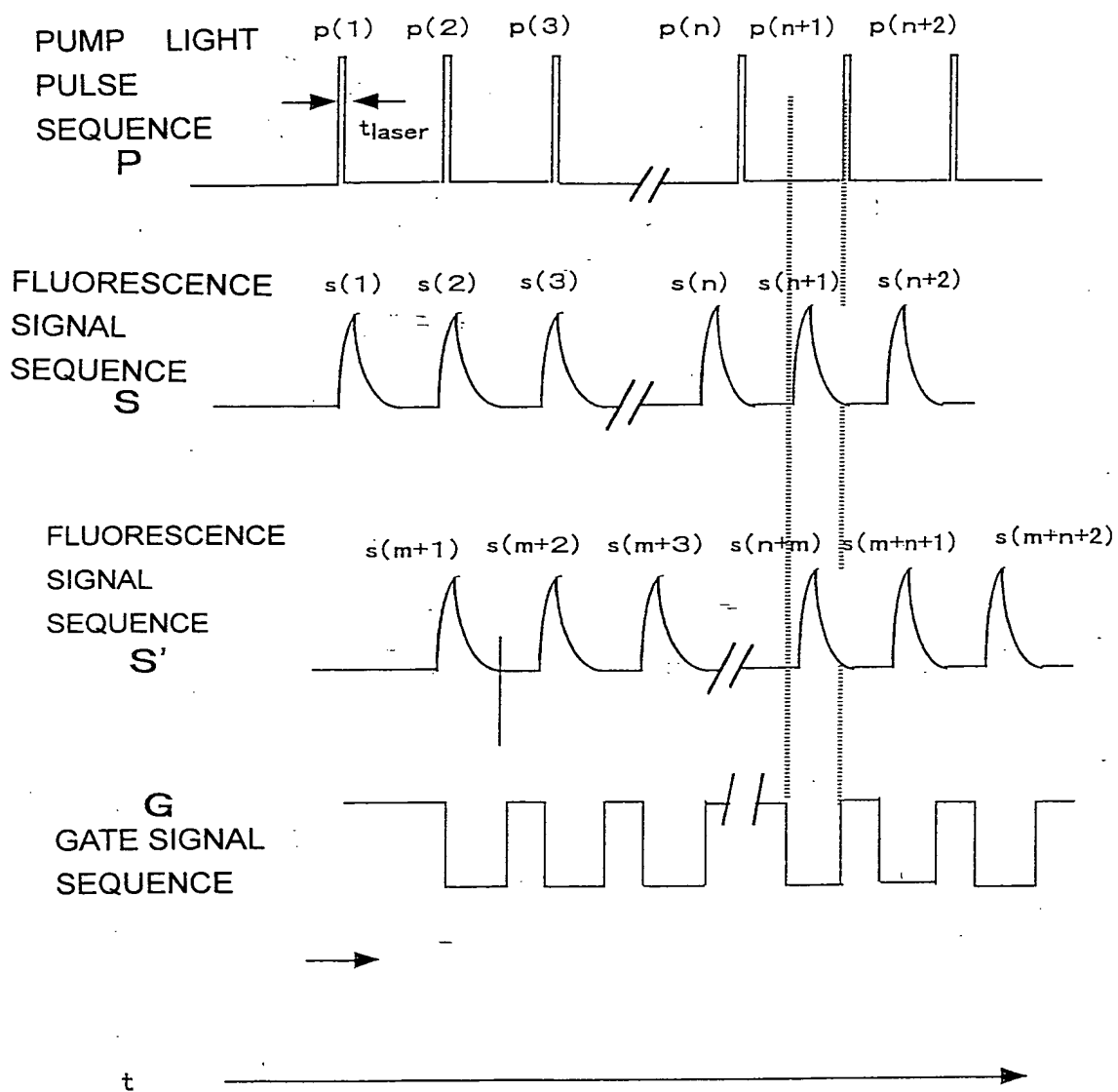


FIG. 60

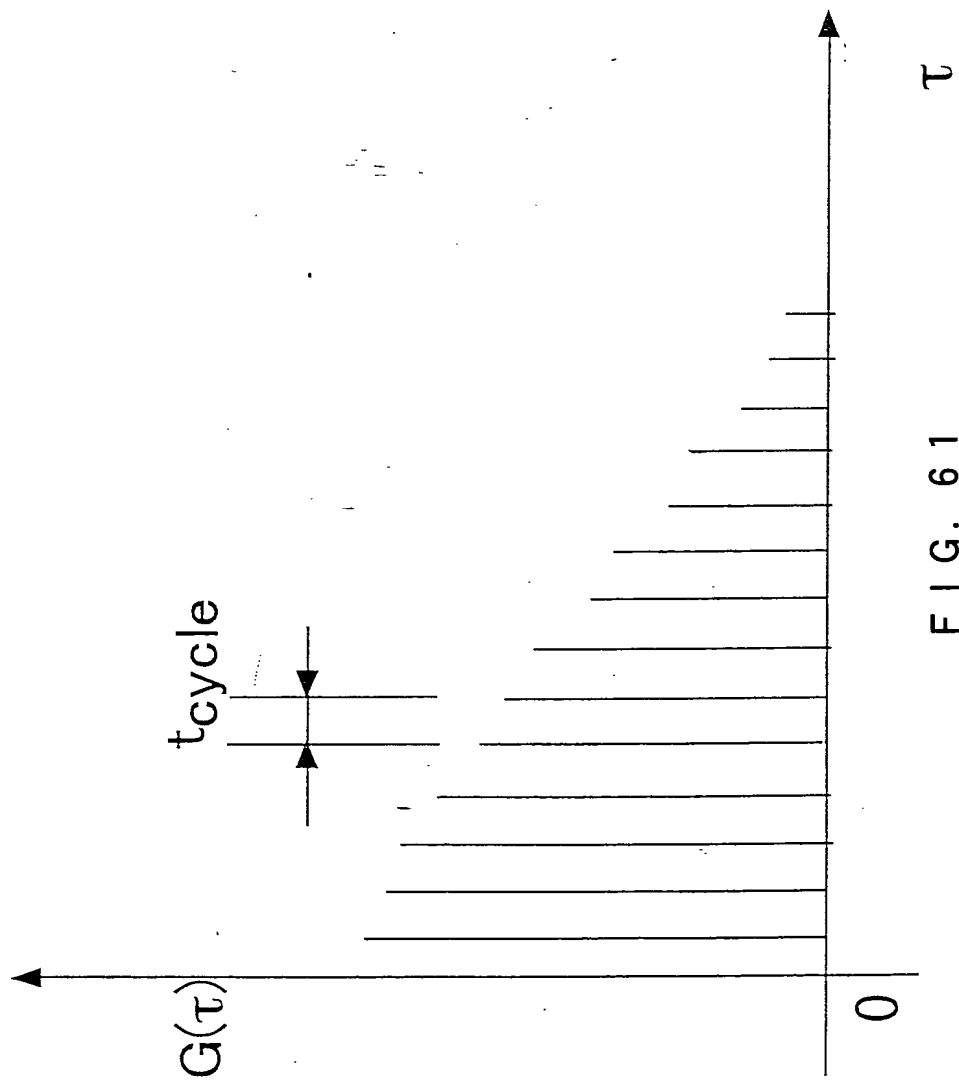


FIG. 61

FIG. 62 is a block diagram of a system for measuring fluorescence.

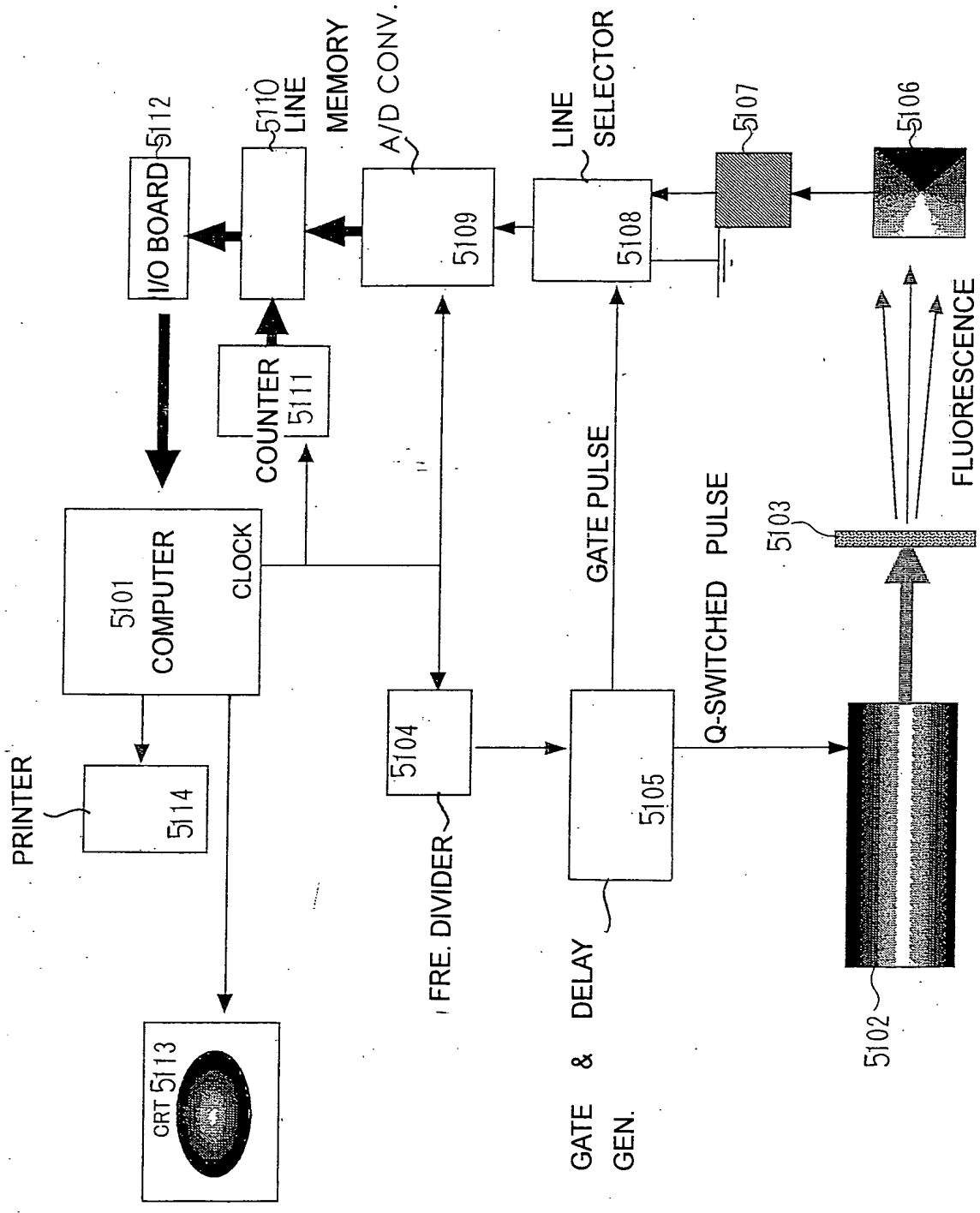


FIG. 62

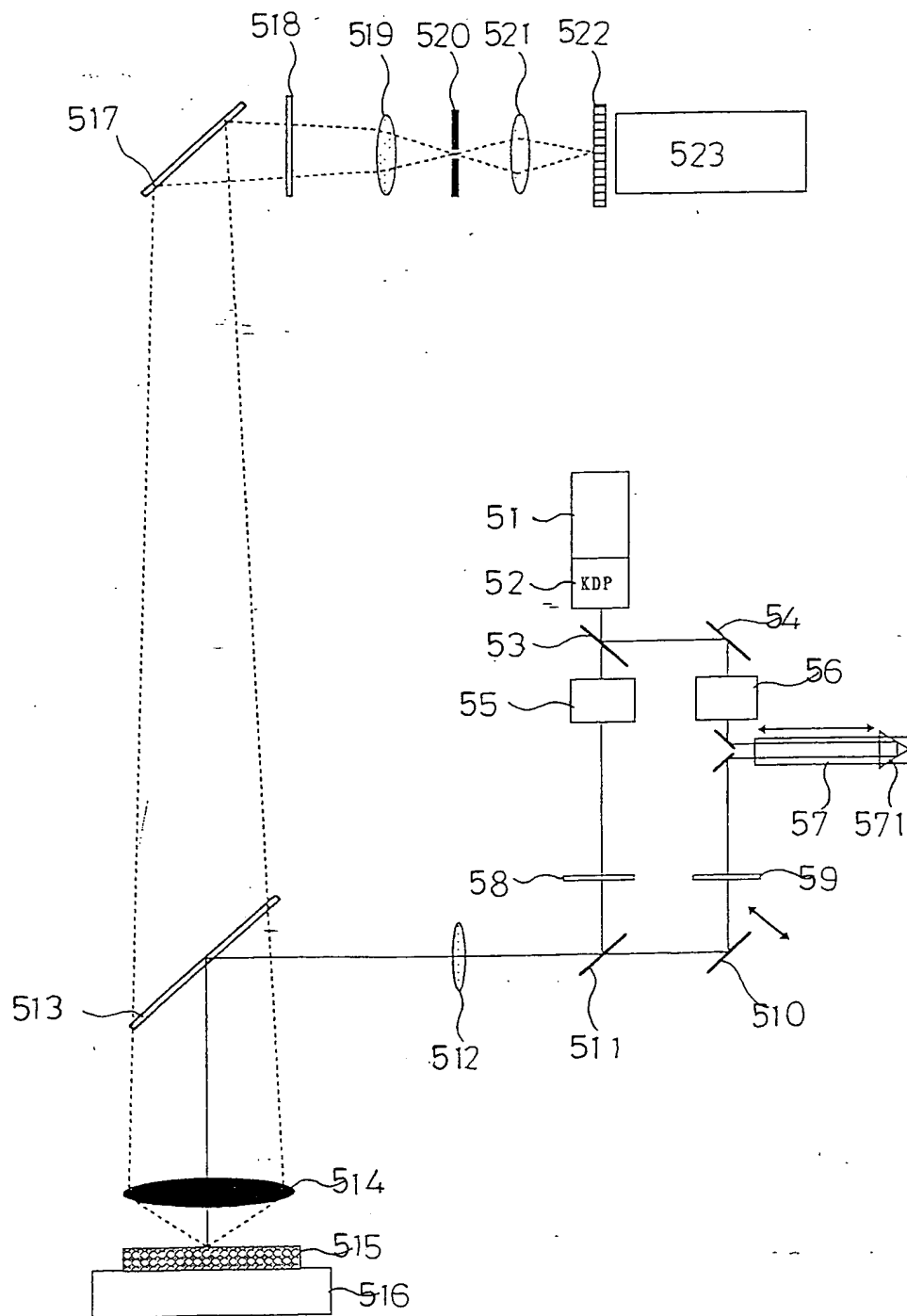


FIG. 64